

Cascadia™

Creating Remote Possibilities®

Hybrid Extreme Video Management Server Software User's Manual

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1 Introduction

This documentation contains instructions on the use of the Hybrid Extreme Video Management (VMS) server software.

The Hybrid Extreme Video Management (VMS) software is an application that captures and records surveillance data from network cameras, analog cameras, and HD-SDI cameras. The captured data is then sent to the client software and web interface for you to review.

The Hybrid Extreme Video Management (VMS) software is a Windows application that will run automatically when Windows starts.

The Hybrid Extreme Video Management (VMS) software provides several features in addition to the following: Connect to camera, discover connected IP cameras, configure surveillance devices, manage storage, manage user accounts, and more. Users can also be assigned to grant user rights for cameras, assets, and operations (including PTZ controls and presets, accessing recorded video and initiating recording for specific cameras).

For More Information

Visit Cascadia Video Products, LLC at <http://www.cascadiadvrt.com> for additional product documentation.

Support

For additional support information, please contact vendor.

Upgrades

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2 System Requirements

The following are minimum system requirements for running Hybrid Extreme VMS software. System requirements depend on the system's camera count, frame rate and resolution.

Operating System	Windows 7 Home 64bit SP1, Windows 7 Pro 64bit SP1, Windows 7 Ultimate 64bit SP1
CPU	Intel Core i5, i7 Sandy Bridge or Ivy Bridge CPU, Intel i7 3770K CPU recommended
Memory	4GB or Higher, 8GB recommended
Hard Disk	Min. 5GB free space, 20GB recommended
Video Card	Intel HD Graphics 4000 Driver (CPU built-in)
Motherboard	Intel Z77 Express Chipset Motherboard, Intel Z77 Chip-set recommended
Network	Gigabit LAN chip
Web browser	Microsoft Internet Explorer

NOTE: The 32bit Application is not be distributed for Windows 32bit operating software. Please contact Technical Support, if you need it.

Intel HD Graphics Driver Installation

The Intel(R) HD Graphics driver must be installed. in order to use Intel video device before other hardware drivers may be installed.

The Hybrid Extreme VMS software has been optimized within Intel HD Graphics Driver Version 8.15.10.2618.

To download Intel HD Graphics driver, visit their web site: www.intel.com or at the motherboard manufacturers web site.

3 Installation and remove software

3.1 Installation

3.1.1 DVR Board Driver Installation

The DVR board used on the system is used for analog or HD-SDI cameras. The DVR board requires a windows device driver to work properly.

NOTE: This section is for analog and HD-SDI and does not apply to Network Video Cameras.

The files needed for DVR board are as follows: streth_s6dvr.inf, stretch_s6dvr.sys and stretch_s6dvr.cat.



Open Windows Start->Control Panel->System->Device Management.

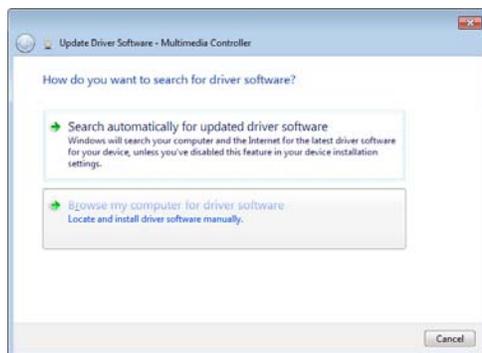
To find out DVR board devices, Click "Scan for hardware changes" icon.



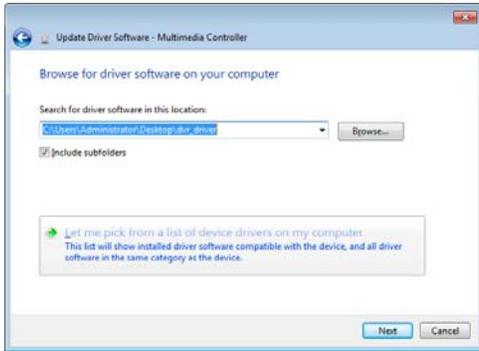
Undefined DVR boards are displayed under "Other devices" as "Multimedia Controller".

Right click with mouse on "Multimedia Controller".

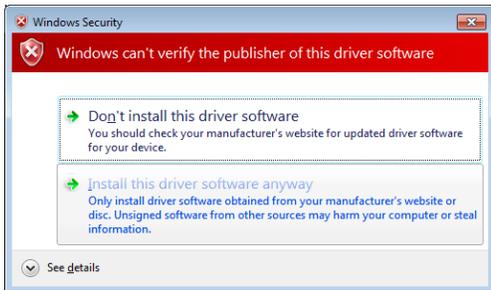
Select and run "Update Driver Software".



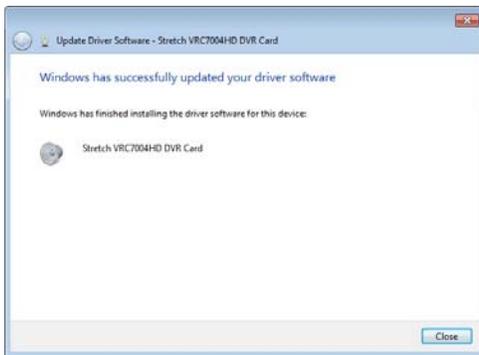
Select "Browse my computer for driver software."



Press the "Browse" button and select device driver files folder
Press Next button.



If you encounter, "Windows can't verify the publisher of this driver software", select "Install this driver software anyway", to continue the installation.



Device driver software will be installed as Stretch VRC DVR card.
To finish, press "Close" button.

3.1.2 Player Installation

The "FX Player" is used for video display and audio out in the Hybrid Extreme VMS server software and other related software. It is done through the Windows ActiveX Control. The "FX Player" must be installed before the Hybrid Extreme VMS server software to avoid installation issues, as the Hybrid Extreme VMS server will search for the "FX Player" to complete the installation.

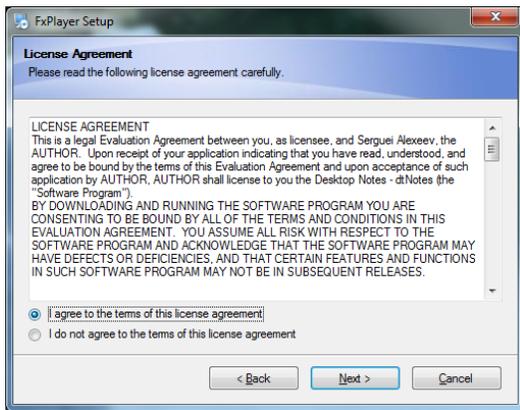
The "FX Player" has two installable versions of software as executable files, one for Intel HD Graphics GPU only, and the other, for all other brands of video cards.

Windows 7 OS Type	Video Driver	Player installation file
32bit	General	FxPlayer.exe
32bit	Intel HD Graphics	FxPlayer.exe
64bit	General	FxPlayer.exe
64bit	Intel HD Graphics	FxPlayer4GPU.exe



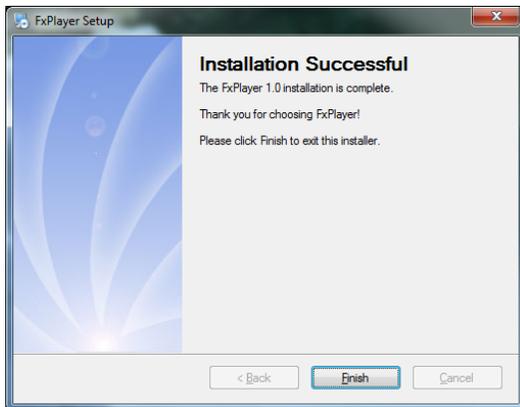
Open, either the FxPlayer.exe or FxPlayer4GPU.exe, depending on which video card you have.

Click Next to continue.



Please read and agree to the terms of the license and click Next.

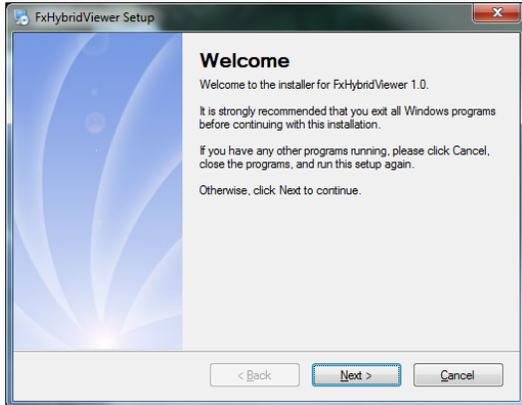
This will start the installation process.



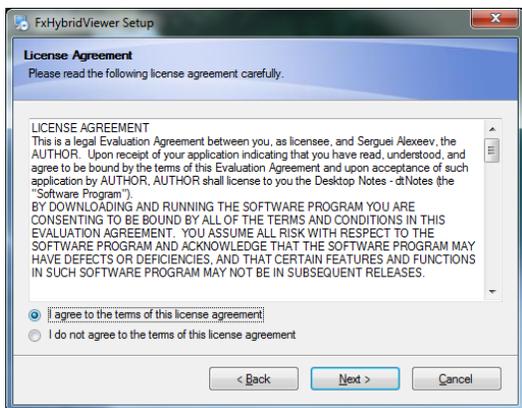
Once installation is successful, press the Finish button.

3.1.3 Hybrid Extreme VMS Server Software Installation

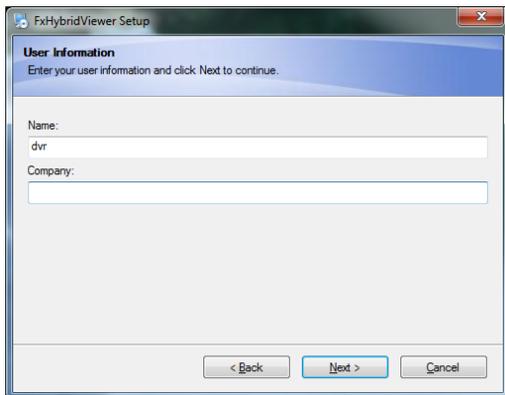
FxHybridSetup_64bit.exe is Hybrid Extreme VMS server software installation setup file name.



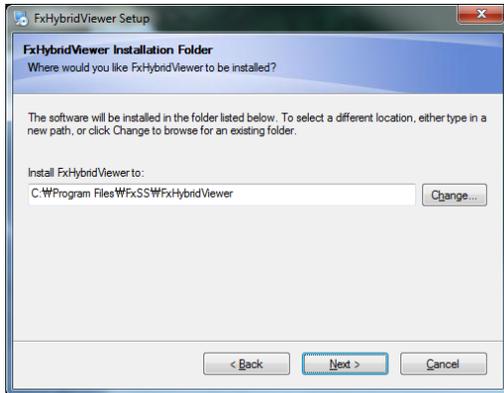
To start the install, click Next.



Please read and agree with the terms of the license and click Next.

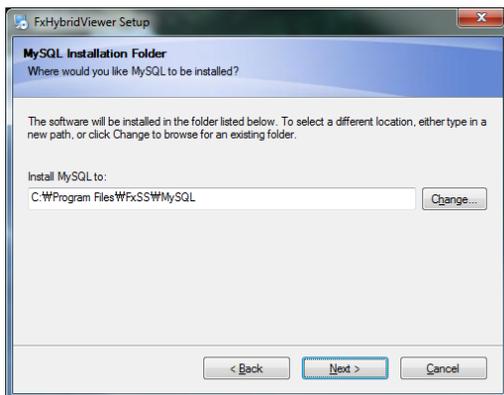


Enter your user information and click Next to continue



The software will be installed in the folder. To select a different location, either type in a new path, or click Change to browse for an existing folder.

NOTE: The default Hybrid Extreme VMS server software folder is under "C:\Program Files\FxSS\FxHybridViewer" folder.

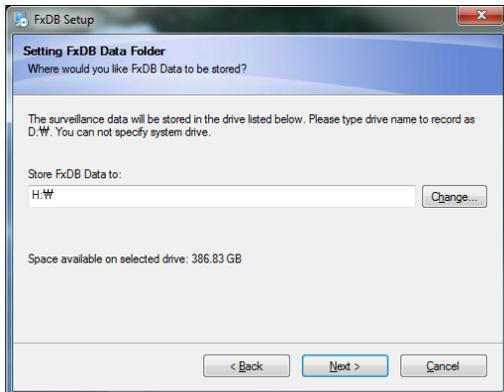


The MySQL software will also be installed in the folder. To select a different location, either type in a new path, or click Change to browse for an existing folder.

NOTE: Default MySQL software folder is "C:\Program Files\FxSS\MySQL" folder.

NOTE: MySQL software is needed to support the Hybrid Extreme VMS server software.

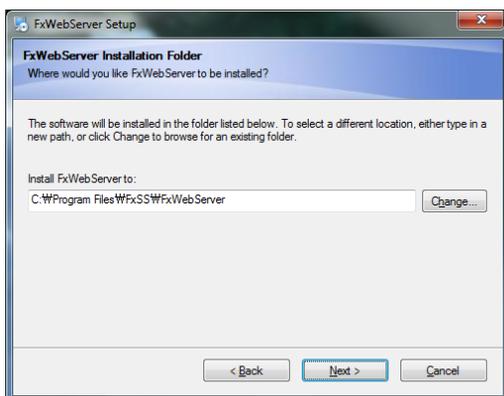
Click Next to continue



The FxDB data (Video, audio and other meta data) will be stored in the local disk drive or folder first.

Click Next to continue

NOTE: User can add on more local drives at "storage setup" in setup menu.



The Web Server software will be installed in the specified folder. To select a different location, either type in a new path, or click Change to browse for an existing folder.

NOTE: Default Web Server software folder is "C:\Program Files\FxSS\FxWebServer" folder.

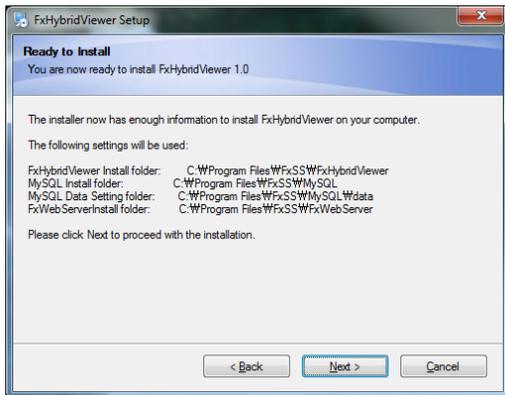
NOTE: The Web Server software is needed to support the Hybrid Extreme VMS server software.

Click Next to continue.

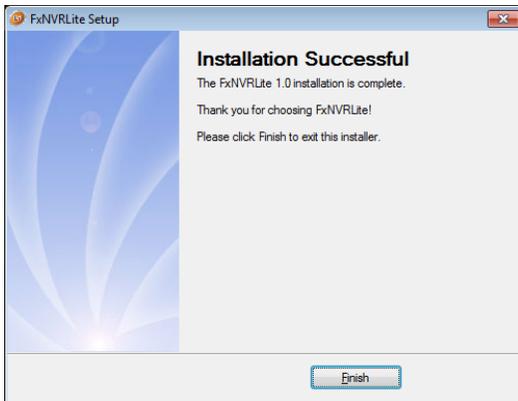


The shortcut icons will be created in the "Shortcut Folder". If you don't want to use the default folder, you can either type a new name, or select an existing folder from list.

Click Next to continue.



Click Next to proceed with the installation.



Once installation is successful, Click "Finish."



FxHybrid Viewer icon is located on Desktop screen.

3.2 Start

To start the Hybrid Extreme VMS server, please do the following:

- When the system is turned on
- Double click "FxHybridViewer" Icon to run

When the system is turned on, the auto "System Login" will be displayed.

3.2.1 Log In



When the "Auto login for next time" is checked, the login window will appear when the system reboots or when the user logs out. None of the features will function without a user login.

- User Name: Login user ID
- Password: User password
- Auto login: Automatically login without being prompted to input username and password.

NOTE: Default Username & Password: admin/admin

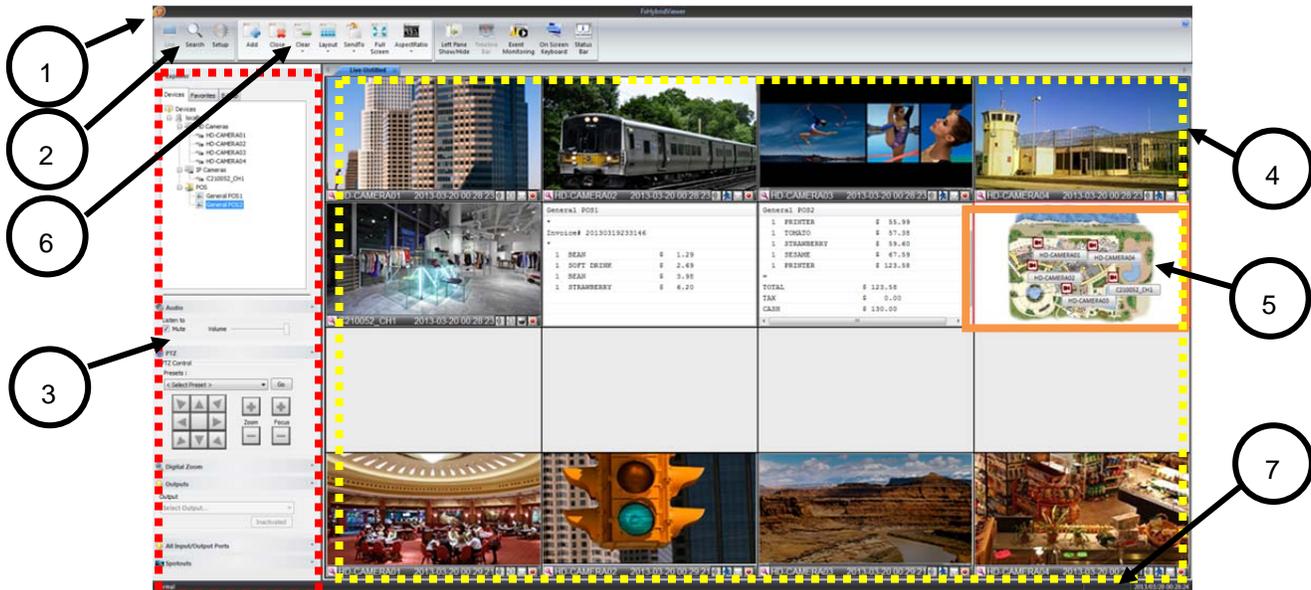
3.3 Remove software

To uninstall software go to:

Control Panel > Programs and Features > Uninstall FxHybridViewer

Control Panel > Programs and Features > Uninstall FxPlayer

4 Main screen

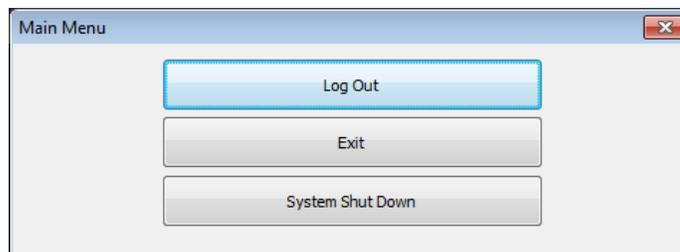


Main screen is divided into the following sections:

- 1 Main Icon
- 2 Main Tool
- 3 Left pane
- 4 View window tab
- 5 Channel window
- 6 Window Tool
- 7 Status bar

4.1 Main Icon

Pressing the Main Icon will bring up the “Main Menu” bar on the center of the screen.



4.1.1 Log Out

If the user selects "Log Out" a message will display "Are you sure you want to log out?" If selected "Yes", all the content will close and the "Log in" menu will be display on center of the screen.

NOTE: 3.2.1 Please refer to the section on "Log In".

4.1.2 Exit

If the user selects "Exit" a message will display "Are you sure you want to exit?" If selected "Yes", the program will exit and go into the Windows Desktop.

4.1.3 Shutdown

If the user selects "System Shut Down" a message will display "Are you sure you want to shutdown?" If selected "Yes", the program will exit followed by a full system shutdown.

4.2 Main Tool

"Main Tool" contains Live, Search & Setup button.



"Left pane" and the "selected view window tab" is comprised of live mode.



"Left pane" and the "selected view window tab" is comprised of search mode.



"Left pane" is comprised of setup mode.

4.3 Left pane

When a user clicks the Live button on the "Main tool", this area is comprised of function pane for live mode. When a user clicks Search button on the "Main tool", this is comprised of function pane for search mode. When a user clicks Setup button on the "Main tool", this area is comprised of setup menu pane.

4.3.1 Live mode

Live mode is comprised of the following panes.

- Explorer pane
- Audio pane
- PTZ pane
- Digital Zoom pane
- Outputs control pane
- Spotouts pane
- Input port status/output port control pane

For more information, refer to section 5 "Live".

4.3.2 Search mode

Search mode is comprised of the following function panes.

- Explorer pane
- TimeSet pane
- Audio pane
- Digital Zoom pane
- Print pane

- Export pane

For more information, see section 6 "Search".

4.3.3 Setup mode

Setup mode is comprised of the Setup menu pane. For more information, see section 7 "Setup".

4.4 View window tab

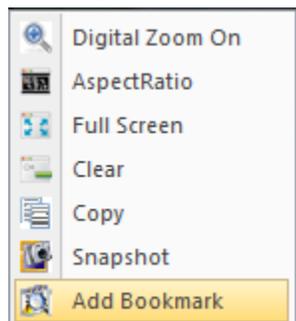
View window is an area to display live video or recorded video with layout. For more information about "Layout", see section 4.6.3 "Layout".

View Window can be displayed as multiple tabs, added by clicking the Add button in the Window Tool or open saved "Favorite".

4.5 Channel windows

This area displays the status of the camera and video. There are different functions depending on the mode in the Main tool. . For more information, see section on "Channel window".

By pressing the right mouse button on each individual channel, a popup menu will be displayed.



Digital Zoom	Turn On or Off the digital zoom of the selected channel.
Aspect Ratio	Change the "Aspect ratio" of the selected channel, or switch to fit screen.
Full screen	Change to full-screen display or display normal screen size.
Clear	Closes the selected channel.
Copy	Copy the currently selected channel image into clipboard. Copy and save images to editing programs such as MS Paint.
Snapshot	Save selected channel image to PNG file.
Add Bookmark	A Bookmark can be set up to search from the currently selected time.

4.6 Window tools



Add View window tab.

NOTE: Maximum of 8 view window tabs can be added on the Hybrid Extreme VMS.



Close all or close the selected view window tab.



Clear all or clear the selected view window tab.



Make changes on a layout of the selected untitled view window tab.

NOTE: Layout in "Favorite" cannot be modified.



Display selected view window tab on a different screen.

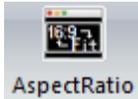
The Hybrid Extreme VMS can connect up to 2 monitors.



Full screen view on a selected view window tab.



Display or hide Left pane.



Make video aspect ratio changes on each channel of the view window.



Hide or show timeline in search mode.



Hide or show Status bar.



Hide or show Live event and Advance search.

Show live event monitoring in Live mode.

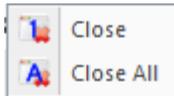
Show Advance search in Search mode. Event search and Smart search is located in Advance search.



Displays "On Screen Keyboard"

4.6.1 Close

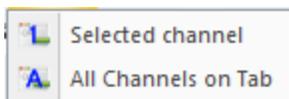
Closing view window tab.



Close	Close currently displayed view window tab.
Close All	Close all view window tab.

4.6.2 Clear

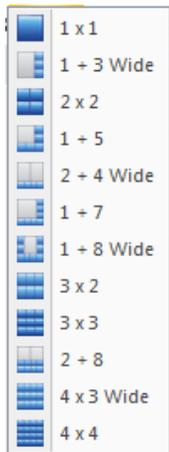
Only "untitled" view window tab can cleared.



Selected Channel	Close currently selected channel.
All Channels On Tab	All channels will be closed.

NOTE: The "Favorite" is not available to clear.

4.6.3 Layout



Layout can be modified only on "Untitled window tab".

4.6.4 Full screen

4.6.4.1 Main screen to Full screen



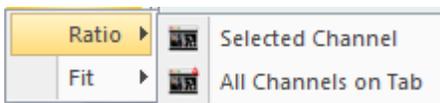
Pressing "FullScreen" button and expand the selected view window tab to full screen.

4.6.4.2 Full screen to Main screen

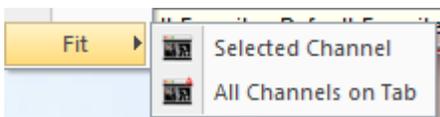
Press "ESC" key on the keyboard to return to the main screen. Exit Full screen by using the Popup menu of the Channel window.

4.6.5 Aspect Ratio

Select whether to apply the original image aspect ratio of the displayed image.



- Selected Channel Apply aspect ratio on the selected channel.
- All Channel on Tab Apply aspect ratio on all channel of the current view window tab.



- Selected Channel Display the selected channel to fit the screen size.
- All Channel on Tab Apply fit the screen on all channel of the current view window tab.

4.7 Status bar

The status bar displays the systems current operating status.

5 Live

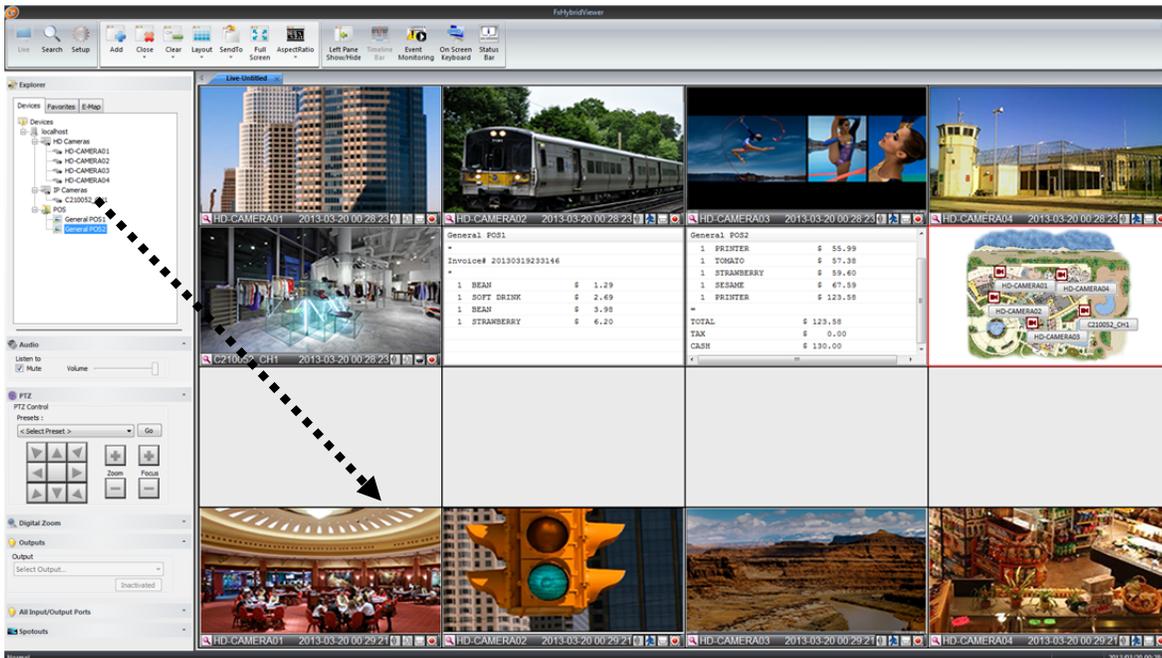
5.1 Channel window

Video is displayed in the channel window and the features are as follows.

- Camera status display
- Digital zoom use. For more information on digital zoom control, see section 5.5.
- Save current image by using the Snapshot feature.
- Display E-Map.
- Display POS transaction data

On the Device tab of the Explorer pane, drag and drop the selected camera into selected channel window to display video.

Using the same method, select a Map in the E-Map tab and drag-drop to display the E-Map.



5.1.1 Camera status display

Status display is as follows.

- The current date and time display
- Camera name display
- Record status display

Recording disabled



- Motion Status Display

Motion detected

Recording enabled without recording



No Motion detected

Recording





- PTZ Display

PTZ undefined



PTZ defined without usage



PTZ defined and usage



- Audio Display

Audio undefined



Audio defined without usage



Audio defined and usage



- Video Loss status display: Displayed when there is Video Loss.
- Video Secure Status Display: Displays when a user does not have permission to view the selected video.

5.1.2 POS transaction data display

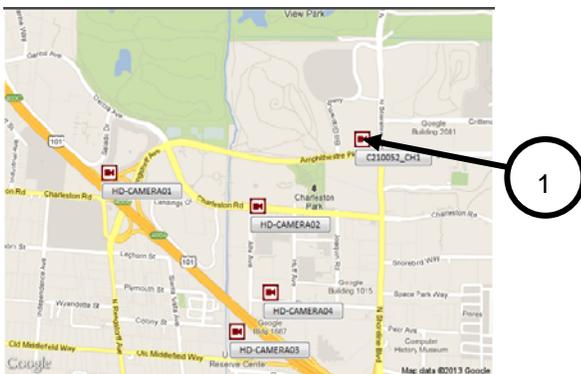
POS transaction data is displayed on the channel.

General POS2		
1	MELON	\$ 37.76
1	GRAPES	\$ 39.95
=		
TOTAL		\$ 39.95
TAX		\$ 0.00
CASH		\$ 40.00
CHANGE		\$ 0.05

- (1) The name of the POS device is located at top.
- (2) A transaction is displayed in real-time.
- (3), Using scroll bar previous transactions data can be reviewed.

5.1.3 e-map display

An e-map is displayed on the channel.

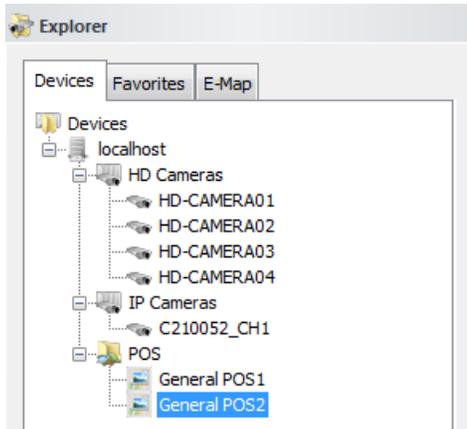


A camera icon with the name of the camera is displayed.
To display a camera, the user can drag and drop the selected camera icon to channel window.

5.2 Explorer pane

"Explorer pane" has Devices tab, Favorite tab and E-map tab. The cameras are listed on the Devices tab. The saved favorites are listed on the Favorites Tab. E-Map tab displays premade views and map.

5.2.1 Device tabs



All the registered cameras and POS devices are displayed in "Devices". Cameras that are disabled will not be shown in the "Device list".

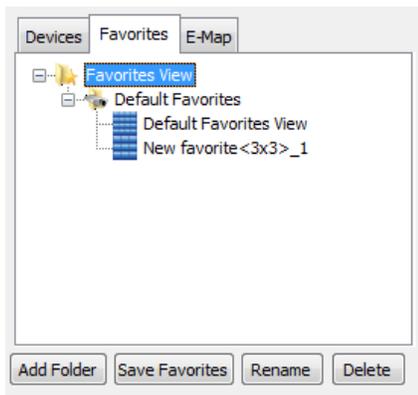
Drag and drop the selected camera into selected channel window to display video. The transactions data from the POS device can be displayed in the same way.

NOTE: One view the duplicates of the same device cannot be displayed.

-  Live camera
-  Video loss camera
-  No view permission

5.2.2 Favorite tabs

Favorites can be accessed by all users.



- Add Folder Add Favorite folder.
- Save Favorite User can save the selected untitled view tab to favorite.
- Rename Rename selected Favorite or folder.
- Delete Delete selected Favorite folder or Favorite.

Name of favorite views are listed on the favorite tab. User can add or delete favorites.

NOTE: Only authorized user can make changes in the "Favorite" tab.

5.2.2.1 *Add favorite folder*

- Press “Add folder” button.
- Modify folder name. Press “Enter” to save modification.

5.2.2.2 *Add favorite*

- In Window Tool, click “Add view”  to create a new untitled view tab. If there is an image in an existing untitled view tab, an existing untitled tab will be selected.
- Press the “Layout”  button and select the desired layout.
- In the “Devices” tab of the Explorer pane, drag-drop the desired camera into the channel window.
- Select the folder that is created for storing and press “Save Favorite”.
- Modify Favorite name. Once you have finished modifying the name, press “Enter” to save.

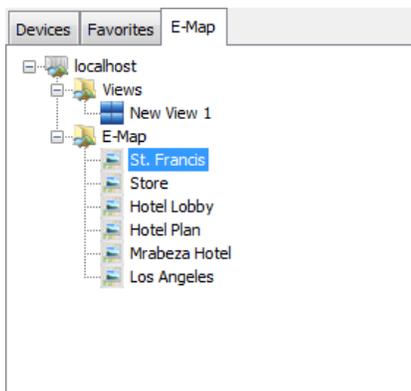
5.2.2.3 *Rename favorite or folder*

- Select Favorite or Folder.
- Press “Rename” button.
- Modify the name. Press “Enter” to save.

5.2.2.4 *Delete favorite or folder*

- Select Favorite or Folder.
- Press “Delete” button.
- To delete, select "YES" in the message box.
- The selected favorite will be deleted from the Tree.

5.2.3 *E-Map*



5.2.3.1 *Views*

The view is comprise of favorites that is created from E-map setup. A view includes the maps and the cameras on the layout. All available users can share it.

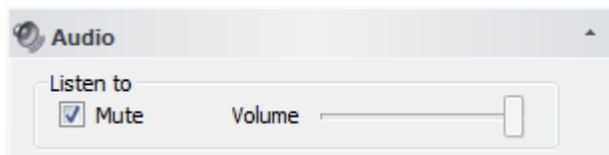
Double click on the view name to display view window tab.

5.2.3.2 *E-Map*

To display the Map, drag-drop the Map into a channel window.

5.3 *Audio pane*

5.3.1 *Listen to*

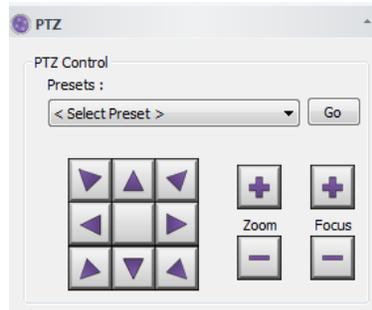


Mute Mute volume.

Volume Volume control.

NOTE: Camera and audio configuration is configured in setup.

5.4 PTZ Control pane



The PTZ pane is activated by the selected channel window that has the PTZ control enabled.

Pan, tilt, zoom, and focus control functions are available.

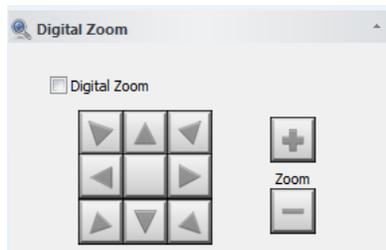
NOTE: The user must have permission to use the PTZ camera control function.

5.4.1 Go Preset

Preset is stored in PTZ setup. The name of the saved preset is listed in the "Presets" box. A User can select a preset and click the Go button to move to the selected preset.

For more information about defining preset, see PTZ setup.

5.5 Digital Zoom Control pane

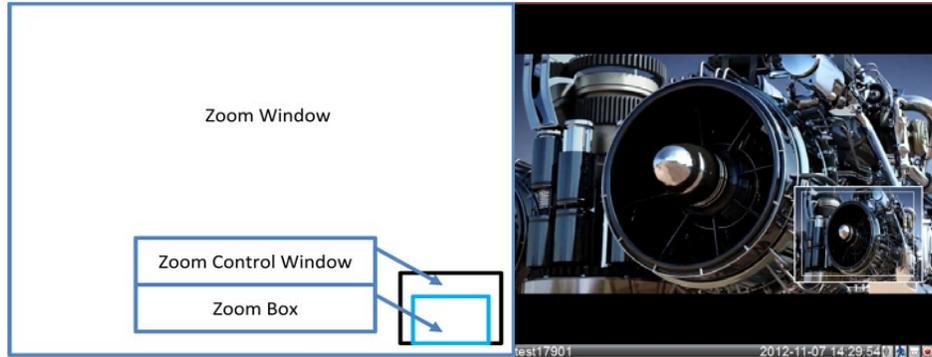


To use the Digital Zoom function, the Digital zoom feature must to be turned "On". Use one of the following methods.

- Check mark the "Digital Zoom" in the Digital Zoom Pane.
- Press the right mouse button in the Channel window and select "Digital Zoom On".

To deactivate the Digital zoom, use one of the following methods.

- Uncheck "Digital Zoom" in the Digital Zoom pane.
- Press the right mouse button in the Channel window and select "Digital Zoom off".



5.5.1 Zoom control window

5.5.1.1 Zoom control window

The original video image is displayed in the zoom control window.

5.5.1.2 Zoom box

The image of the zoom box area will be displayed in the zoom window.

5.5.1.2.1 Zoom In

Moving the mouse wheel forward will decrease the size of the zoom box towards the center.

5.5.1.2.2 Zoom Out

Moving the mouse wheel backwards will increase the size of the zoom box towards the center.

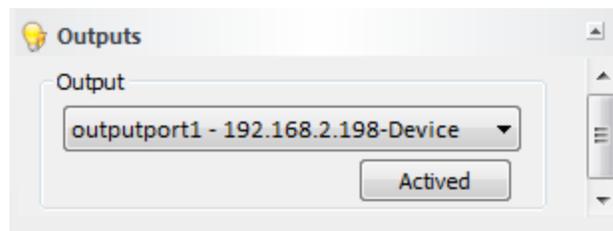
5.5.1.2.3 Zoom box Movement

The user can control the movement of the zoom box by holding down the left mouse button. Moving the zoom box will not affect the size of the zoom box. While moving the mouse, the image of the zoom box will be displayed in the zoom window.

5.5.2 Zoom window

An image is displayed in the zoom box.

5.6 Outputs pane

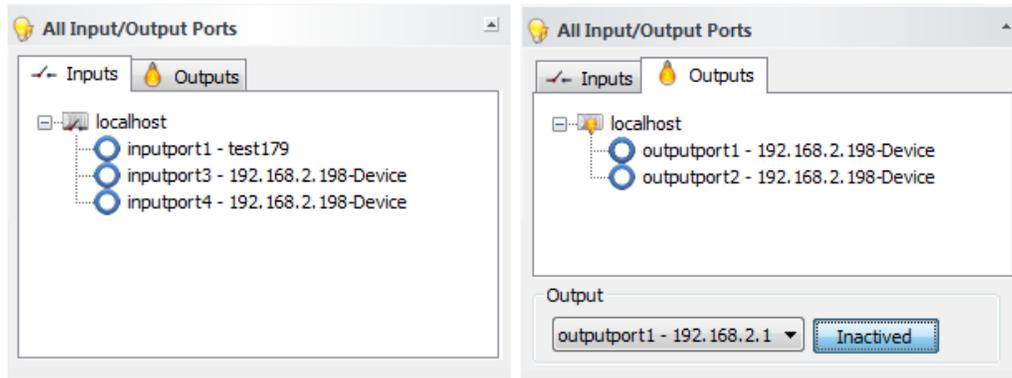


Control the output port that is connected to the Hybrid Extreme VMS.

The output of the IP device will be displayed when the corresponding camera is displayed.

Output port status is displayed on the button, by pressing the button the status will change. When it is in disabled (inactive) status, press the button to enable (Active). By pressing the button, the active status will become inactive.

5.7 All Input/Output Ports pane



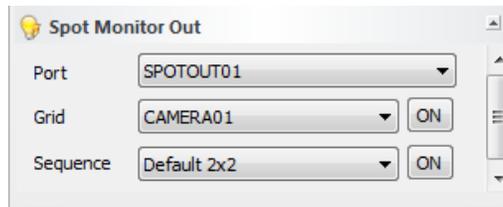
This pane is comprised of Inputs tab and Outputs tab. Inputs tab has the list of all the input ports. Outputs tab has the list of all the output ports.

Input port status will be displayed. Output port status will display and control the output.

 Inactive status  Active status.

5.8 Spot Monitor Out pane

This pane controls the spot output port.



Set the spot output port and select grid or sequence. Pressing the “ON” button will show the corresponding display on the monitor.

Grid is a layout screen with cameras.

Sequence connects multiple grids and displays them continuously.

For more information on the Spot out settings, please refer to 8.7 Spot out Setup .

5.9 Event Monitoring pane

Event Monitoring			
Date & Time	Server Name	Event Source	Message
2011/10/21 16:00:42:257	localhost	videoin4 - Board-0	videoin4 - Board-0 motion detected end
2011/10/21 16:00:39:840	localhost	videoin4 - Board-0	videoin4 - Board-0 motion detected start
2011/10/21 15:50:12:288	localhost	videoin4 - Board-0	videoin4 - Board-0 motion detected end
2011/10/21 15:50:11:653	localhost	videoin4 - Board-0	videoin4 - Board-0 motion detected start
2011/10/21 15:50:01:988	localhost	videoin4 - Board-0	videoin4 - Board-0 motion detected end
2011/10/21 15:50:01:388	localhost	videoin4 - Board-0	videoin4 - Board-0 motion detected start
2011/10/21 15:50:00:778	localhost	videoin4 - Board-0	videoin4 - Board-0 motion detected end



Click  Event monitor icon on the Window tool to display Event monitoring pane.

This pane monitors the events. Events are updated in real-time.

6 Search/Playback

Hybrid Extreme VMS has multiple search functions as calendar, timeline, thumbnail, event, and smart search. User can playback by selecting a day & time of the recorded data. Print and export JPEG or AVI file of the selected video.

6.1 Time Line Search

Use the Timeline to quickly verify existing recorded data. It's easy to determine the status of an event within the timeline by the separated colors in the time line. A user can continuously search without manually inputting the date and time.



Time bar

Time display bar.

Press and hold the left mouse button as you move the Time bar. This action displays the video of the selected time or an event.

Boundary time

Displays the time interval displayed in the Time bar.

Displays Start and End time.

Play time bar

Marks the Playback location within Time bar.

Current play time

Displays the current time of the playback.

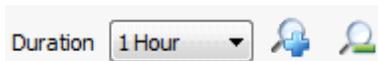
Time line

Displays the status of an event of the recorded video.

Green Continuous Record. No include event

Red Motion Event

Blue Audio record



Duration is displayed in the Time bar. Time boundary can be configured by changing the duration.

There are 1min, 5min, 15min, 30 min, 1 hour, 2 hour, 4 hour, 8 hour, 16 hour, and 24 hour in "Duration".



: Decrease the space within the Time boundary.



Increase the space

within the Time boundary.

6.2 Calendar Search

Display Time

Press the "Date" button and select the desired date. Doing this will mark the selected date on the calendar.

Calendar for November, 2012. The date 18 is highlighted with a blue border, and 19 is highlighted in red. Below the calendar is a "Today" button and a "Selected Date :" label.

Current recorded data is mark in red on the calendar.

Press "Today" to select the present day.

Moves to the selected time.

Moves the selected date and time.

6.3 Channel window

Video is displayed in the channel window and the features are as follows.

- Camera status display
- Digital zoom use. For more information on digital zoom control.
- Save current image by using the Snapshot feature.
- Display E-Map.
- Add bookmark: Add a bookmark to the current time.

6.3.1 Camera Status display

The following status is displayed.

- Displays date and time of the "Playback".
- Camera name display
- "NO RECORD" status display: Displays when there is no recording.
- "NO PERMISSION" status display: Displays when an unauthorized user attempts to access a video.

6.3.2 POS transaction data display

POS transaction data is displayed on the channel.

General POS2		
1	MELON	\$ 37.76
1	GRAPES	\$ 39.95
=		
	TOTAL	\$ 39.95
	TAX	\$ 0.00
	CASH	\$ 40.00
	CHANGE	\$ 0.05

- (1) The name of POS device is located at top.
- (2) A transaction data is displayed as playback time.
- (3) Using scroll bar, the previous transaction data can be reviewed.

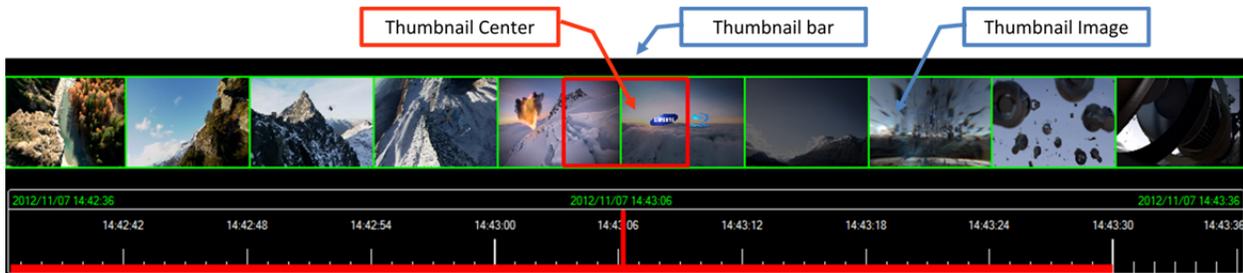
6.3.3 e-map display

An e-map is displayed on the channel. See selection 5.1.3

6.4 Thumbnail Search

Using the Thumbnail image & Time line, a user can quickly search the desired recorded event.

Select Thumbnail Tab.



- Thumbnail bar 10 images from the selected channel window are displayed.
- Thumbnail image Thumbnail image. Select a Thumbnail image to play the video of the image in the Thumbnail.
- Thumbnail Center The "Thumbnail Center" will display the selected thumbnail and playback the recorded video.

6.5 Explorer pane

Refer to [5.2](#) Explorer pane.

6.6 Timeset pane

Monday, September 26, 2011
13:45:36

Displays the date and time of the current playback.



Forward play



Backward play



Previous frame



Next frame



Next block



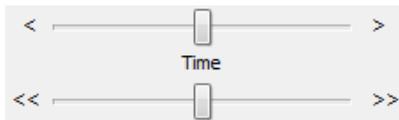
Previous block



Image of start time

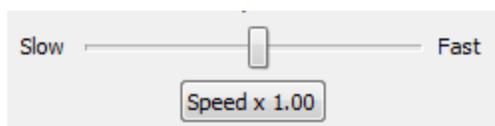


Image of end time



Time-base search by moving the time bar. Move the slider bar to the right to "Fast-forward".

Move the slider bar to the left to "Rewind and Fast rewind".



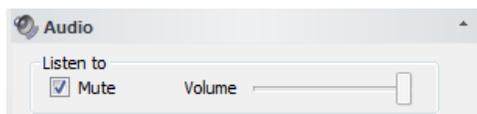
Play speed control. Maximum 16x speed.

In order to change the speed to 1x, press "Speed x 1.00".

Skip Gap while playing for no recording.

If there is no recorded video in the View window tab, the system will jump the next image.

6.7 Audio pane



Recorded audio can be heard through the speakers when the video is played at 1x speed.

Check "Mute" to disable audio.

6.8 Digital Zoom pane

Refer to 5.5 [Digital zoom](#) .

6.9 Print pane

Print the current image in the channel window of the View window.

Camera Name :	test17902
Image Capture Time :	2012-11-07 14:43:38
Report Print Time :	2012-11-07 14:54:45
User :	admin
User's Note :	

Title	Title of the image that is being printed.
Camera name	Camera Name
Image Capture Time	Displays the capture time of the image.
Report Print Time	Displays the report of print date and time.
User	Displays the logged in user name.
User's Note	User's note of the image.
Close on Completion	After printing, the window will close automatically.
Print	Print
Close	Close without printing.

6.10 Export pane

There are two ways to export recorded data.

AVI/JPEG Backup the selected image or video to JPEG or AVI format

Database The recorded video file(Hybrid Extreme VMS database file) can be exported. It is possible to playback the exported file by using the "ExportViewer".

6.10.1 Export Time Selection

Export Start and End time setting.

- Users can manually set the time and date.
- Align the Timeline bar to the desired date and time and press "Set button".

6.10.2 AVI/JPEG Export

Export Status Displays the current Export status.

Start time Export start time.

End time Export end time.

Source Displays the list of cameras that are currently playing on the view window.
User can select the multiple cameras to be exported.

Export type Select "AVI" or "JPEG" format.

Select the "Add Watermark" for additional security and validity of the image file. The "Verify Tool" can be examined to determine forgery or any alteration to a file. Refer to the Verify Tool section for more information.

CD/DVD Export data to CD/DVD.

Hard disk Select a folder from a local or removable drive to export the data.

AVI Filename Create an AVI file name for the Export data.

Close on Completion Automatically close when the Export is completed.

Export Start Export.

Close Close.

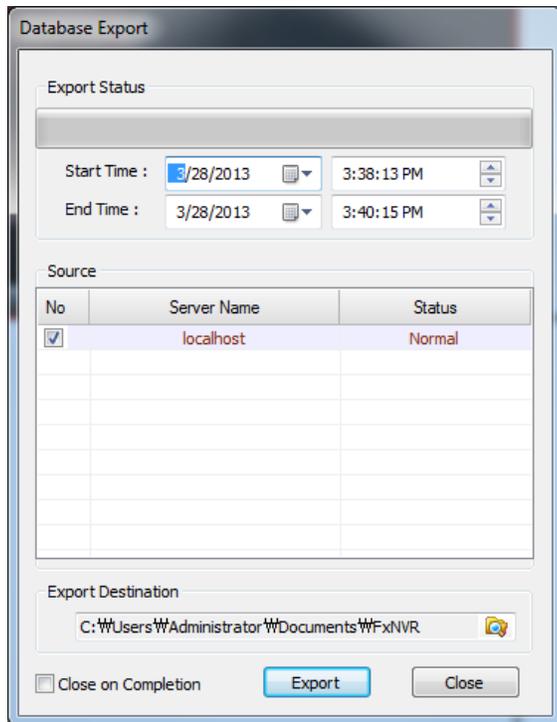
6.10.3 Database Export

The Database Export, copies the recorded video or audio without modification. This file can be playback using the "ExportViewer" from another computer.

Database Export will copy all the stored video or audio of the between start and end time of the selected time.

For more information about "Export Viewer", refer to "Export Viewer user guide".

NOTE: Depending on the number of cameras, this may take several minutes.



- Export Status Displays the current Export status.
- Start time Export start time.
- End time Export end time.
- Source Select "localhost" for Hybrid Extreme VMS server.
- Export Destination Select a folder from a local drive to export the data
- Close on Completion Automatically close when the Export is completed.
- Export Start Export.
- Close Close.

6.11 Event Search

"Event search" search the occurred events; motion, camera status, input device status change and other.

Select Advanced Search icon button at Window Tool. Event search and Smart search is displayed. Select the search Event.

Event Search Bar

Date :

Start Time : 10/14/2011 8:12:21 PM

End Time : 10/17/2011 8:12:21 PM

Event Type :
Motion Detection

Event Source :

Event Source	Action
<input checked="" type="checkbox"/> videoin1 - Board-0	Start
<input checked="" type="checkbox"/> videoin2 - Board-0	Start
<input checked="" type="checkbox"/> videoin3 - Board-0	Start
<input checked="" type="checkbox"/> videoin4 - Board-0	Start

SEARCH

Max Result : 100

Search Result 100

Date & Time	Event Source
2011/10/14 22:17:37:152	videoin1 - Board-0
2011/10/14 22:17:37:906	videoin2 - Board-0
2011/10/14 22:17:38:446	videoin3 - Board-0
2011/10/14 22:17:39:275	videoin1 - Board-0
2011/10/14 22:17:44:653	videoin1 - Board-0

Date Set search date.

Event Type Select event search.
Search Event is as follows.

- Video Loss
- Motion Detection
- Input port event

Event Source Select a source based on the "Event type".

Max Result The maximum number of results to be displayed in the Result.

Search Shows the Search Result.

Search Result Search results are displayed.

Go to Goes to the selected date and time of the event.

Clear Clear all result.

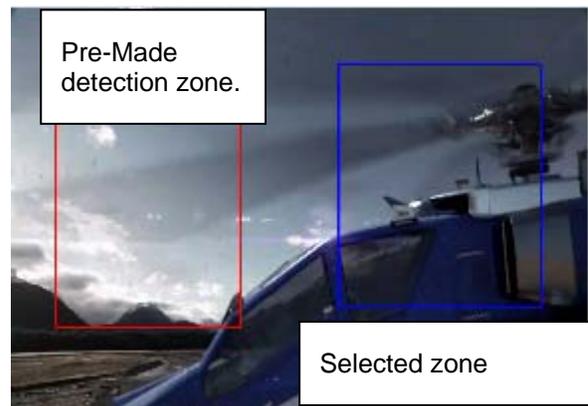
6.12 Smart search

Smart search is a detail video motion detection function.



- Camera** Select a camera to be searched. The image of the selected camera is displayed on the video search.
- Date** Select the start and end time to search.
 Click Start time button to set the start time of the current play time on the "Timeline".
 Click End time button to set the end time of the current play time on the "Timeline".
- Video/draw area** Set the detection zone of the selected camera.
 Press "Delete" button to delete the detection zone.
 The selected area is in blue.
- Condition** Sets the condition for detecting movement.

Sensitivity	Motion Sensitivity.
Threshold	Establish criteria for changes.
Interval	Sets duplicated change interval.
- Set time** Go to the start time.
- Search** Start search.
- Pause/Play** Pause or continue during search.
- Stop** Stop search.
- Goto** Go to the selected time in the search results.
- Clear** Delete all the found results.
- Result** Display the search results.

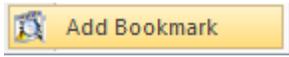


6.13 Bookmark

The bookmark function is used to quick search a video at a later time.

6.13.1 Add bookmark

Users can quickly find bookmarked videos by the Bookmark Search pane.



Click the right mouse button to a selected camera and then select "Add Bookmark" or click "A bookmark" icon at bottom.



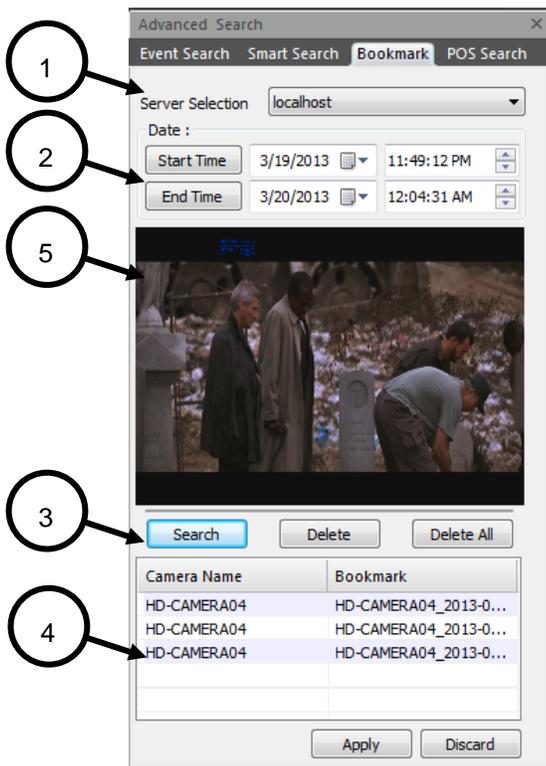
Enter a name for the bookmark.



When the save is complete, the bookmark icon is displayed in the Timeline. When you double-click the bookmark icon, you can change the name.

6.13.2 Search bookmark

To search for bookmark, select the Bookmark pane tab.



(1) Select "localhost" for Hybrid Extreme VMS server at Server Selection.

(2) Set Start time and End Time.

Click Search button(3) to search for the bookmark. The result will be listed in the window(4).

When single Clicking on the Camera Name in the column(4), A video will be displayed in the video screen.(5).

When double-clicking the Camera Name(4), The play time will be moved to bookmark's time for current a View window.

Note: A view window must to exist a camera that Bookmark contained the camera.

Once click Bookmark column to change the name of.

6.13.3 Delete Bookmark

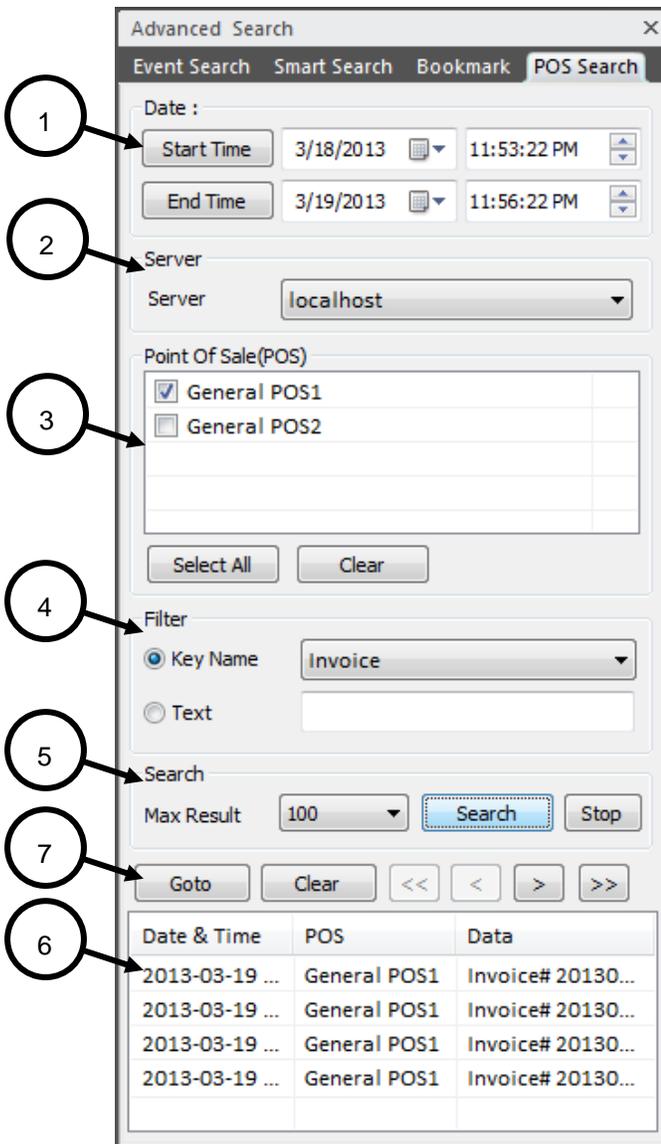
Select a bookmark on the result window, click the Delete button to delete and remove the bookmark from the result window. When clicking the Apply button, it will be removed from the database.

When clicking the Discard button, the deleted item will be reverted to its origin.

NOTE: If the Apply button has been used, the discard may not affected.

6.14 POS transaction data search

The POS Search tab is used to find data which are stored transactions, and can be moved as result of the time. Select POS search pane tab as Advanced Search pane.



(1) Set Start time and End time to look up.

(2) Select 'localhost' for Hybrid Extreme VMS server at Server Selection. Then the name of the device(s) will be listed in the POS device window(3).

Select one or more POS devices(3).

Select a filter type, either Key Name or Text(4).

Key Name: These were added during setup.

Text: Specify a word to look up.

Click Search button (5) to search for transaction data. The results will be listed in the result window (6).

Select a result (6) and click Goto button (7), the play time will be moved to the bookmark's time for current a View window.

To clear results, click Clear button.

Click ">" button for more results than max result count.

For more information, prefer to POS Setup.

7 Setup

Setup configures the Hybrid Extreme VMS environment. Each tree will have a separate setup item.

Setup button is common to each of the settings of the following:

Button	Description
New	Create a new environment.
Save	Set the environment for temporary storage. It will not be applied to the Hybrid Extreme VMS.
Apply	Current settings will be modified and applied to the Hybrid Extreme VMS.
Remove	The selected environment will be deleted temporary It will not be applied to the Hybrid Extreme VMS.
Discard	Discard the current setting and revert back to the previous setting.

NOTE: If you do not press “Apply” after changing the settings, the system will revert back to the previous setting.

7.1 Surveillance Server

Set basic Hybrid Extreme VMS setting.

7.1.1 General

Surveillance Server Information

Name	Server
Description	NVR Server

Set the name and a brief description of the Server.

7.1.2 Start up

Set the start up configuration of the Hybrid Extreme VMS server.

Auto Log In

<input checked="" type="checkbox"/> Auto Log In	
Default Username :	admin
Default Password :	•••••
Default Favorite :	Default Favorites View

Auto log in	Start and Log In the program automatically.
Default Username	Select the “Auto Log In” user.
Default Password	Select the “Auto Log In” user's password.
Default Favorite	Select the “Auto Log In” Favorite display.

7.1.3 Display

Language: Select the language to be used in the program.

Text Overlay will be displayed in the channel window of the message settings.

Language

Default Language :

Text Overlay

Enable Date Display
 Enable Time Display
 Enable Name Display
 Enable Motion State Display
 Enable Record State Display
 Enable PTZ State Display
 Enable Audio Use Display
 Enable Notice Display

Default Font :

Text Color :

Default Language	Select the language to be used in the program.
Enable Date Display	Enable Date Display
Enable Time Display	Enable Time Display
Enable Name Display	Enable Name Display
Enable Motion State Display	Enable Motion Status Display
Enable Record State Display	Enable Record Status Display
Enable PTZ State Display	Enable PTZ Status Display
Enable Audio Use Display	Enable Audio Use Display
Enable Notice Display	Enable Notice Display
Default Font & Font Setting	Set the Font
Text Color	Set the color of the text

7.1.4 Date & Time

Current Date & Time

Date : 2011-10-17 Time : 15:02:29

Date & Time Setting

Time Zone

Date & Time Format

Date Format:

Time Format:

Current Date & Time	Display the current date and time.
Date Format	Select the display format of the date. YYYY-MM-DD, MM/DD/YYYY , www mmm dd YYYY Select one of the following For example) YYYY-MM-DD: 2011-8-12 MM/DD/YYYY: 8/21/2011 www mmm dd YYYY: Fri Sep. 1 2011
Time Format	Select the display format of the time. Select one of 12Hour, 24Hour For example) 12 Hour: 1:12:33 PM 24 Hour: 13:12:33

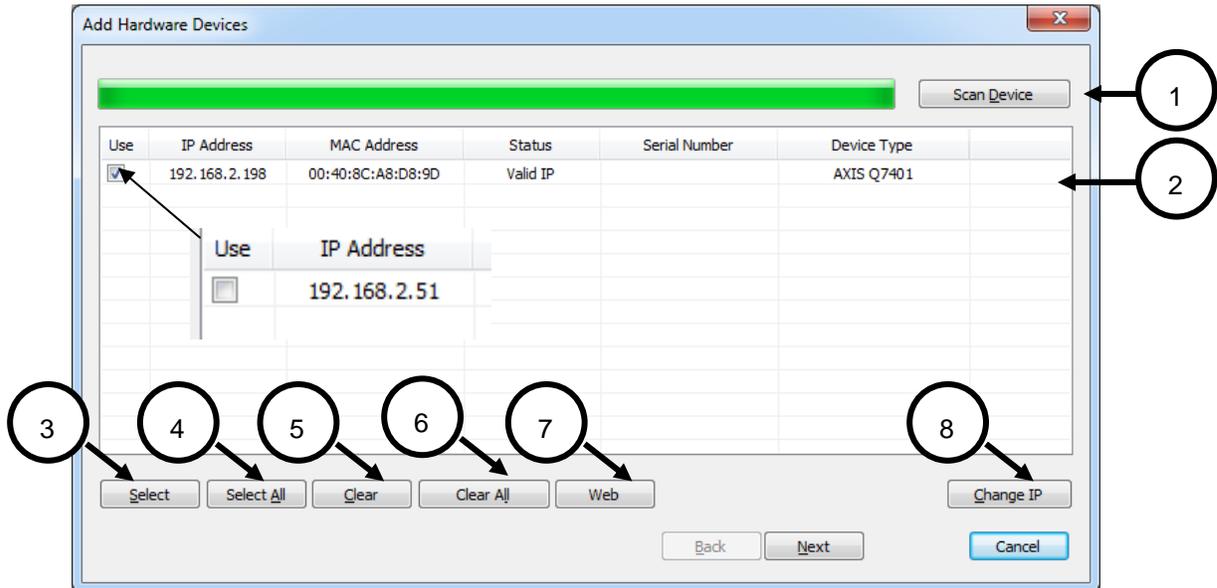
7.2 Wizard

7.2.1 Add Hardware Device

IP camera or IP video server can easily be added using the "Wizard" mode.

7.2.1.1 Scan device and change IP

Search IP camera or IP video server, or change the IP of another device.



- Scan Device Search for Network IP camera or IP server within the network.

- Devices Display discovered device.
 If the Status shows "Registered", the device is already registered in database. If the status shows "Valid" IP, the device is not registered.

- Select Select the registered device.

- Select All Select all devices.

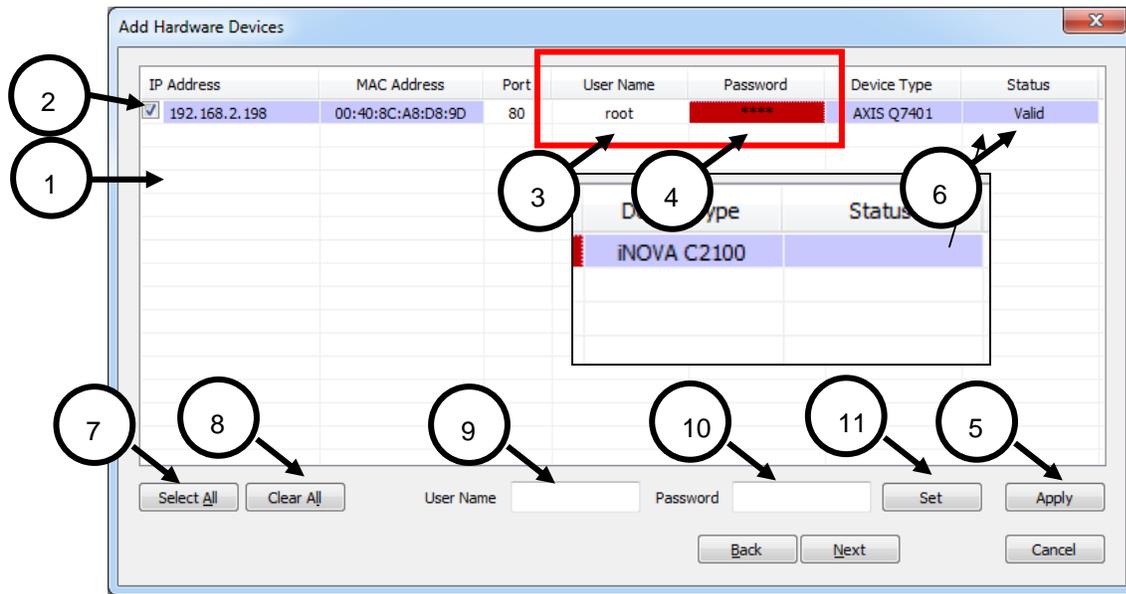
- Clear Clear the selected device.

- Clear All Clear all devices.

- Web Use the explorer web access on the selected device.

- Change IP Change the IP of the selected device. For more information about changing or setting the IP Address, refer to [IP set](#) .

7.2.1.2 *Set device user*



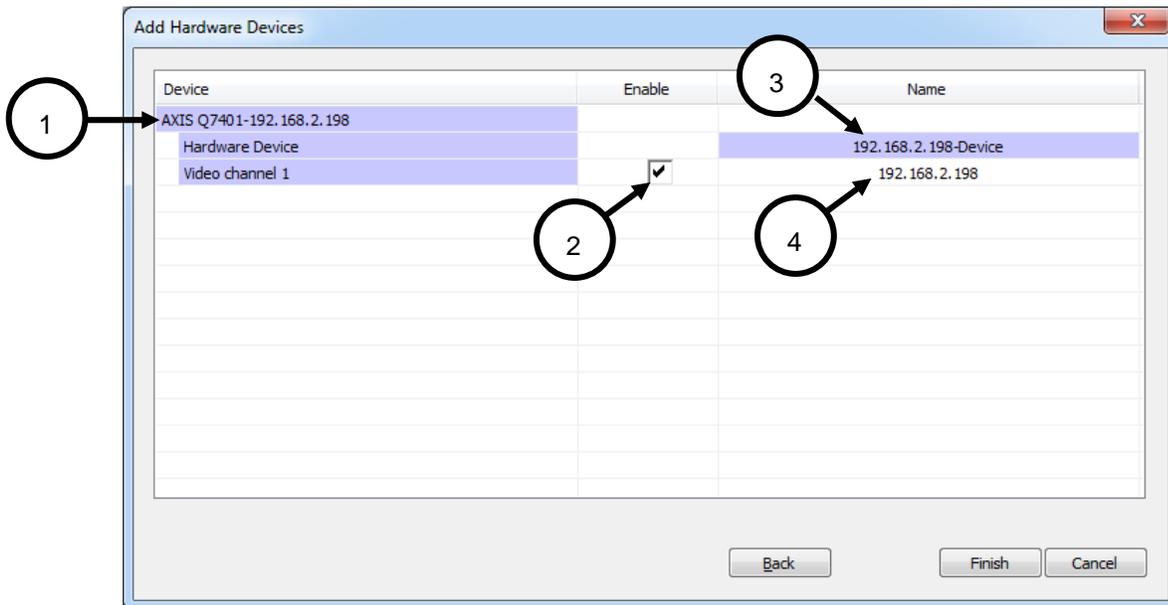
Select the camera(2) at list window(1). Set user name (3) and password(4) to access each device.

Click Apply button (5) to save changes.

After applying, if the status column shows Valid (6), the setting has been applied properly. If the status does not show valid, please check the setting and try again. If the User name and the password is incorrect, "Access failed" notification will be displayed.

NOTE: Device that is not valid cannot be added to the system.

7.2.1.3 *Edit Name and finish*



Select the Name column to change the name and click "Finish" to add the device and quit.

You must enable the selected camera or the data will not be saved.

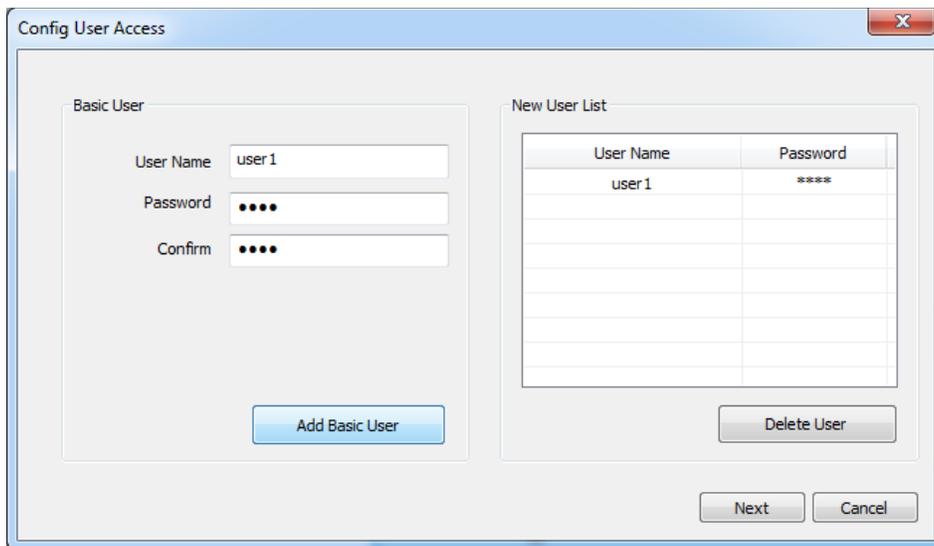
Camera and other devices will be displayed below the added devices "Device Configuration".
 You can see the video feed from the camera if you switch from "Live" to "Search".

7.2.2 Configure User access

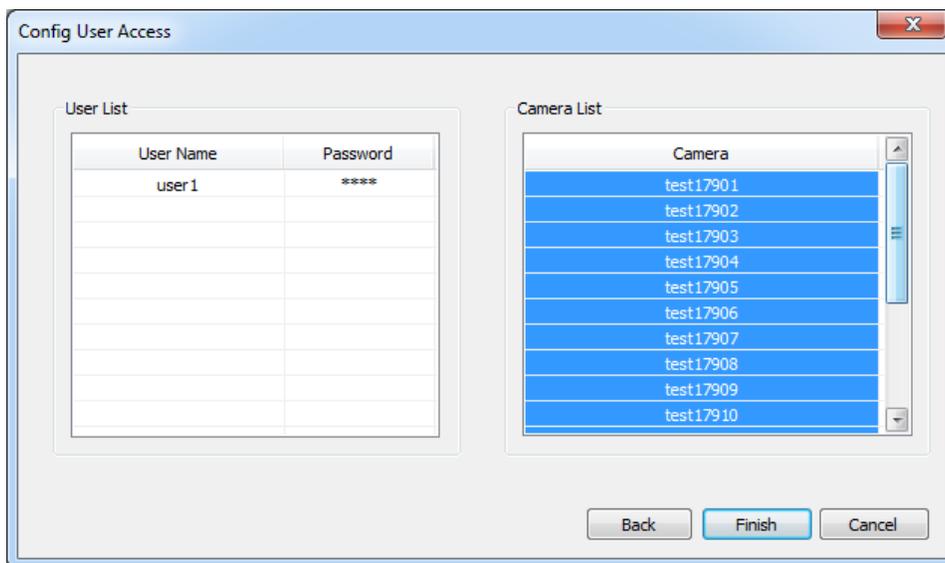
Use the "Wizard" function to add user.

7.2.2.1 Add User

Enter the new user name and password. By pressing "Add Basic user", you can add multiple users at once.



7.2.2.2 Select Camera

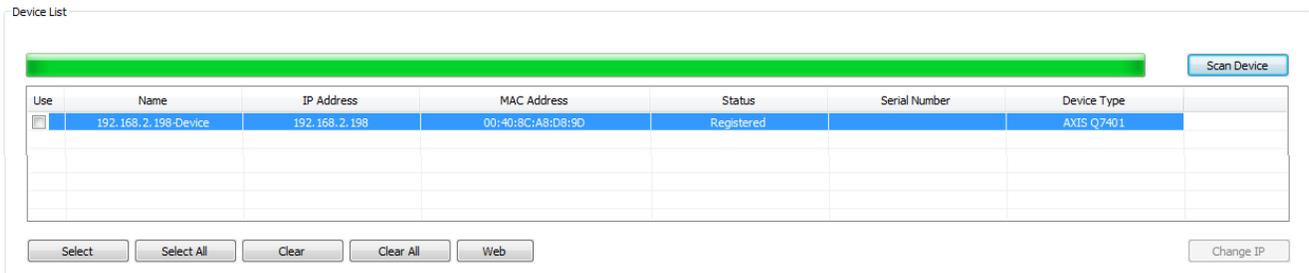


Display the camera to be used by the user.
 Complete the new user registration by pressing "Finish". Once the process is complete, the new user will be displayed in the "User setup".

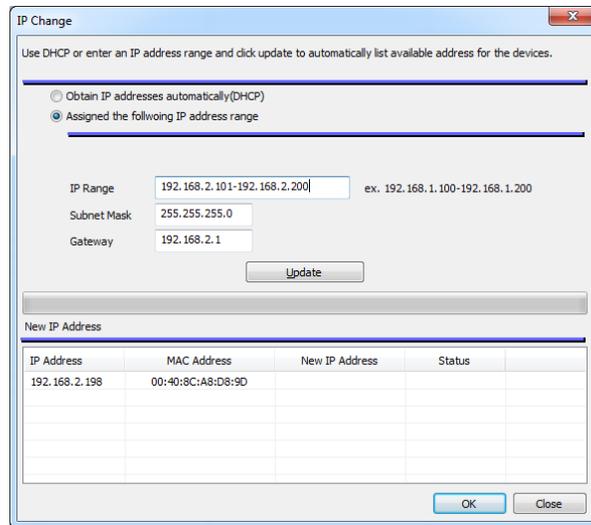
7.3 Hardware devices

7.3.1 IP Set

Make changes to the IP of the IP camera and the IP video server.



Use “Scan Device” to locate devices. Select a device and press “Change IP” to configure IP address.



Obtain IP address automatically (DHCP)

Obtain IP address automatically

Assigned the following IP address range

Assign IP address range

IP Range

Set IP address value to an IP device.

Only one IP address can be assign for each device.

Subnet Mask

Set Network Subnet Mask

Gateway

Set Gateway

Update

Open device setting

The setting will not use duplicate IP.

7.3.2 Add device

Individual IP Device

Device Name <input type="text"/>	MAC Address (S/N) <input type="text"/>
Provider <input type="text"/>	Firmware Version <input type="text"/>
Device Model <input type="text"/>	Admin port <input type="text"/>
Device IP Address <input type="text"/>	Location <input type="text"/>
User Name <input type="text"/>	<input type="checkbox"/> Use DNS host Names <input type="text"/>
Password <input type="text"/>	PORT Setup :
Interface Protocol <input type="text"/>	<input checked="" type="radio"/> Use default HTTP port 80 and RTSP port 554
	<input type="radio"/> Use this HTTP port <input type="text"/>
	and this RTSP port <input type="text"/>

Multiple IP Device

No	Name	IP Address	Product	Model	MAC Address	Firmware Version	User Name	Status

7.3.2.1 Individual IP Device

A single device can be manually added.

These are the following requirements.

- Device Name Set the name of device you want to add.
- Provider Set the device's manufacturer information.
- Device Model Set the device model number.
- Device IP address Set the device IP address.
- User Name Set the device user name.
- Password Set the device user password.

These are the following option requirements.

Interface Protocol	Set the protocol. If the protocol is set manually, the system will automatically set it at default setting.
MAC address	Input device Mac address.
Firmware version	Input device firmware version.
Admin port	Input device Admin port.
Location	Set device location.
Use DNS Host name	Allows the use of Domain name.
Use default HTTP port 80 and RTSP port 554	Uses default HTTP port 80 and RTSP port 554.
Use HTTP port	Sets the HTTP Port
Use RTSP port	Sets the RTSP Port

Press "New Device" button and complete the device configuration. After completing the configuration, press "Add" to save the changed configuration.

Confirm your setting by pressing the "Connect button".

7.3.2.2 Multiple IP device

Press "Find Device" button to locate devices that are connected to the network. After locating all the devices, add all the individual IP devices to the system.

7.3.3 Edit Device

Device List

No	IP Address	Product	Device Name	Licensed Channel	Port	Video Channels	Microphone Channels	Speaker Channels
1	192.168.2.179	VISTACNC	test179	16	0	16	0	0
2	192.168.2.198	AXIS	192.168.2.198-Device	1	0	1	1	1

Apply Discard

You can modify the name of the Device.
 After modifying the name, click "Apply" to save the changes.

7.3.4 Remove Device

Delete IP camera or IP video server.

Device List

<input type="checkbox"/>	IP Address	Product	Device Name	Licensed Channel	Port	Video Channels	Microphone Channels	Speaker Channels	Status
<input checked="" type="checkbox"/>	192.168.2.100	KNY	192.168.2.100-Device	1	0	1	1	1	Remove
<input type="checkbox"/>	192.168.2.198	AXIS	192.168.2.198-Device	1	0	1	1	1	
<input type="checkbox"/>	192.168.2.179	VISTACNC	test179	16	0	16	0	0	

- Device List Displays all the currently registered devices.

- Select All Select all the listed devices.

- Clear All Clear all selection.

- Remove Delete the selected device temporary.

- Apply Delete the selected device from the Hybrid Extreme VMS. The selected device and its recorded contents along with its settings will be deleted.

- Discard Return to previous content that is set to delete.

7.4 Device Configuration

“Device Configuration” is used to modify devices that are connected to the Hybrid Extreme VMS.

7.4.1 Hardware Devices

Displays resource of the DVR board installed on the Hybrid Extreme VMS server. Depending on the DVR board, IP camera, & IP video server the Hybrid Extreme VMS resource may vary.

Hardware Devices

Product	Model	IP Address	Version	Licensed Channel	Cameras	Audio Input	Input triggers	Output triggers
Stretch	STRETCH_VRC_700#D		7.6.0	4	4	4	0	0
KNY	iNOVA C2100	192.168.2.52		1	1	1	1	1

7.4.2 Cameras

Quick camera setup.

Channel	Enable	Camera Name	IP Address	Audio	PTZ
All	<input type="checkbox"/>			Click here	<input type="checkbox"/>
1	<input checked="" type="checkbox"/>	HD-CAMERA01		Not Use	<input type="checkbox"/>
2	<input checked="" type="checkbox"/>	HD-CAMERA02		Not Use	<input type="checkbox"/>
3	<input checked="" type="checkbox"/>	HD-CAMERA03		Not Use	<input type="checkbox"/>
4	<input checked="" type="checkbox"/>	HD-CAMERA04		Not Use	<input type="checkbox"/>
5	<input checked="" type="checkbox"/>	C210052_CH1	192.168.2.52	Not Use	<input checked="" type="checkbox"/>

- Channel Camera number
- Enable Camera setting. If disabled, the camera will not be “visible” in “Live or Search”.
- Camera Name Set the name of the Camera.
- IP Address IP address of IP camera
- Audio Set the audio connected to the camera. Audio cannot be duplicated.
- PTZ Sets PTZ enable or disable.
For detail on PTZ setting, please refer to “PTZ setup”.

7.4.3 Image setting

Camera image setting. Depending on the camera connected to the system, the settings may vary.

Image Control

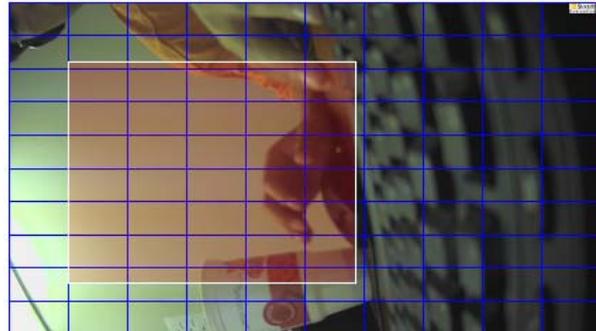
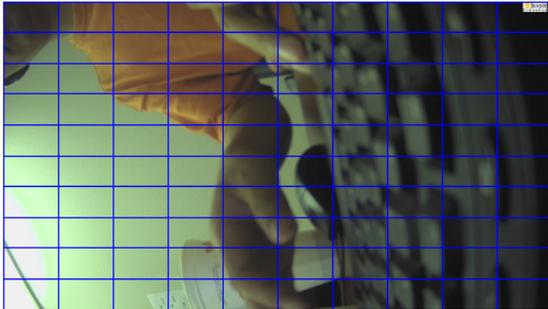
- Brightness Camera “Brightness” setting.
- Contrast Camera “Contrast” setting.
- Sharpness Camera “Sharpness” setting.
- Saturation Camera “Saturation” setting.
- Hue Camera “Hue” setting.

Press “Apply” to save the changes. Press “Discard” to revert back to the previous setting.
Press “Reset” for factory default.

7.4.4 Motion Setting

Camera motion setting.

Motion Setting



7.4.4.1 Add Motion area

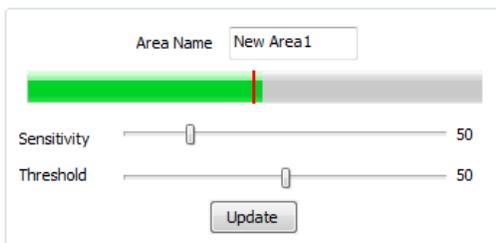
Create a motion detection area within the video image. Press and hold the left mouse button to create a region within the image for motion detection. Motion regions are shown in the figures above. Area name will be added to the display.



7.4.4.2 Motion area Deletion

Select an area name of the Area Name column and click Delete button to remove from list.

7.4.4.3 Motion Setting



“Area Name” can be changed.

Each Motion sensitivity and Threshold can be set.

- Higher the Sensitivity value, the higher the sensitivity is to motion.
- Lower the Threshold value, the higher the detection.

7.4.5 PTZ setting

PTZ camera and PT module pan, tilt, zoom, and preset settings.

7.4.5.1 PTZ port setting

Enable PTZ

PTZ ID

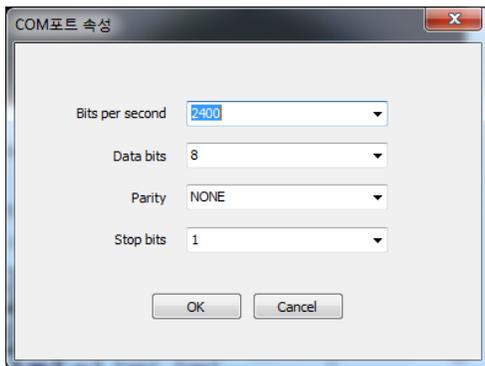
PTZ Protocol

COM port

- Enable PTZ Enable or disable to PTZ control
- PTZ ID Sets the ID of the PTZ devices
- PTZ Protocol Set the PTZ protocol to communicate with the device
- COM Port Connecting PTZ device communication port setting

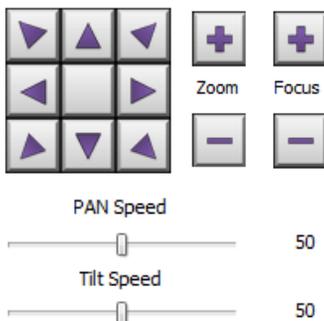
7.4.5.2 COM port setting

Use communication port setting to connect PTZ and devices.



- Bits per second Baud rate setting
- Data bit Data bit setting
- Parity Parity bit setting
- Stop bits Stop bits setting

7.4.5.3 PTZ control



- Pan tilt Vertical & Horizontal movement
- Zoom Optical zoom control to PTZ
- Focus Focus control to PTZ
- Pan Speed Pan speed control
- Tilt Speed Tilt speed control

NOTE: Each operational control may vary depending on the PTZ camera & devices.

7.4.5.4 PTZ Preset setting

A user can register multiple presets on a PTZ to be used in “Live” mode and “Remote client software”.

Preset Type:

Preset No:

Preset Name:

No	Preset Name	Status

7.4.5.4.1 Add Preset

- Preset No: Add Preset number
- Preset Name: Sets the name of the preset number.
- Press the “Add” button to add changes

7.4.5.4.2 Delete Preset

- Select preset from the preset list.
- Press “Delete” button to delete the selected preset.

7.4.5.4.3 Preset operation

- Goto: Run the “Preset No” on the PTZ device.
- Set: Save the "Preset No" on the PTZ device.
- Clear: Delete the “Preset No” on the PTZ device.

7.5 Input triggers

Input trigger settings for a device.

Input Trigger Setting

Channel	Input Trigger Name	Product	Enable	Normal State	Device Type	Status
All			<input type="checkbox"/>	Click here	Click here	
1	inputport1 - test179	VISTACNC	<input checked="" type="checkbox"/>	Normal Open	Input	
2	inputport1 - 192.168.2.198-Device	AXIS	<input checked="" type="checkbox"/>	Normal Open	Input	
3	inputport2 - 192.168.2.198-Device	AXIS	<input checked="" type="checkbox"/>	Normal Open	Input	
4	inputport3 - 192.168.2.198-Device	AXIS	<input checked="" type="checkbox"/>	Normal Open	Input	
5	inputport4 - 192.168.2.198-Device	AXIS	<input checked="" type="checkbox"/>	Normal Open	Input	

Channel Display's the entire input port of the channels.

Name Set the Input trigger name.

Product Display's the Manufacturer.

- Enable Enable or disable Port.
- Normal State Normal State port setting.
Select from “Normal open” or “Normal close”.
- Device Type Change the “Input port” to another type.
NOTE: This setting is used on specific devices.
- Status Displays the status of the current input port.
 - Active: Currently active state.
 - Inactive: Currently inactive state.

7.6 Output triggers

Configure Output trigger setting for the devices.

Output Trigger Setting

Channel	Output Trigger Name	Product	Enable	Normal State	Device Type	Status
All			<input type="checkbox"/>	Click here	Click here	
1	outputport1 - 192.168.2.198-Device	AXIS	<input checked="" type="checkbox"/>	Normal Open	Output	
2	outputport2 - 192.168.2.198-Device	AXIS	<input checked="" type="checkbox"/>	Normal Open	Output	

- Channel Display's entire output port of the channels.
- Name Set the output trigger name.
- Product Display's the Manufacturer.
- Enable Enable or disable Port.
- Normal State Normal State port setting.
Select from “Normal open” or “Normal close”.
- Device Type Change the “Output port” to another type.
NOTE: This setting is used on specific devices.
- Status Displays the status of the current output port.
 - Active: Display current active status.
 - Inactive: Display current inactive status.

7.7 Spot Output

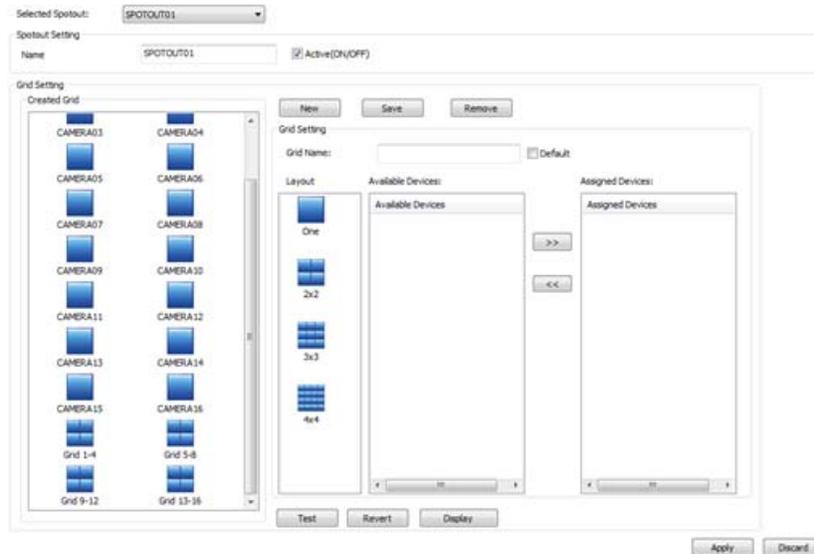
Spot output settings on the device connected to the Hybrid Extreme VMS board.

Depending on the camera layout, the “Spot out” has the ability to sequence the layout grid to grid.

NOTE: Only the cameras that are connected to the Hybrid Extreme VMS board can use the “Spot Out” function.

7.7.1 Creating Grid

7.7.1.1 Create



- Select “Spot out”.
- Press “New” button to begin.
- Select “Layout”. Currently supports 1x1, 2x2, 3x3, & 4x4.
- To display cameras on the selected layout, select the cameras from "Available Devices" and move them into the "Assign Devices"
- Press “Save” button to save the changes.

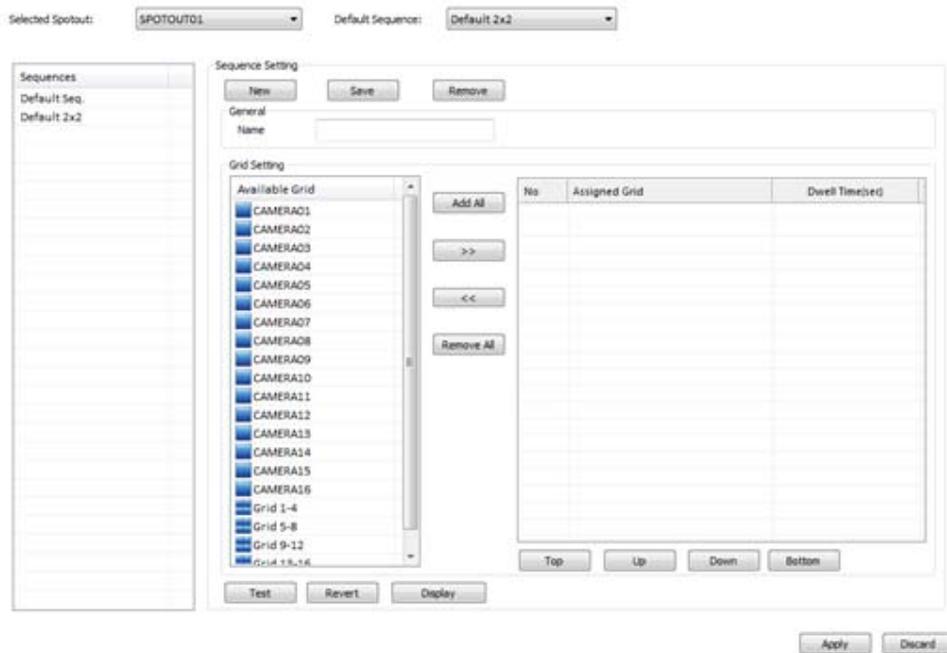
7.7.1.2 Test

To test the spot out port, Press the “Test” button.

Press “Revert” button to revert back to its original spot out setting.

“Display” button is always visible on the grid of the spot out port.

7.7.2 Create Sequence



7.7.2.1 Create

- Select "Spot out".
- Press "New" button to begin.
- Input "Name".
- Selected a grid from the "Available grid" section and move the selected grid to the "Assigned grid" section.
- Press the "Save" button to save the changes.

7.7.2.2 Test

The "Test" button tests the current sequence display of the spot out.

The "Revert" button revert the spot out setting to its original setting.

The "Display" button displays the current sequence.

7.7.2.3 Determining the Order

Top Button: Move the selected grid to the very top.

Up Button: Move the selected grid up one level.

Down Button: Move the selected grid down one level.

Bottom Button: Move the selected grid to the very bottom.

7.8 Record

Record Setting

CH	Enable	Camera Name	Resolution	FPS	CODEC	Quality	Schedule	Pre-Record	Post-Record
All	<input type="checkbox"/>			Click here		Click here	Click here	Click here	Click here
1	<input checked="" type="checkbox"/>	axis.2.198	D1	30	H.264	1000K	Custom Schedule	3	30
2	<input checked="" type="checkbox"/>	Demo01	1080P	30	H.264	2000K	Custom Schedule	3	30
3	<input checked="" type="checkbox"/>	Demo02	1080P	30	H.264	2000K	Custom Schedule	3	30
4	<input checked="" type="checkbox"/>	Demo03	1080P	30	H.264	2000K	Custom Schedule	3	30
5	<input checked="" type="checkbox"/>	Demo04	1080P	30	H.264	2000K	Custom Schedule	3	30
6	<input checked="" type="checkbox"/>	Demo05	1080P	30	H.264	2000K	Custom Schedule	3	30
7	<input checked="" type="checkbox"/>	Demo06	1080P	30	H.264	2000K	Custom Schedule	3	30
8	<input checked="" type="checkbox"/>	Demo07	1080P	30	H.264	2000K	Custom Schedule	3	30

Set each camera Record environment.

CH Displays channel.

Enable Enable recording. If disabled, the recording is disabled.

Camera Name Displays camera name.

Resolution Set the camera recording resolution.

FPS Set the recording frame rate.

CODEC Set the recording Codec.

Quality Set the recording kilo bit rate to change recording quality.

Schedule Set Record schedule. Select from Always, Motion, Event, Key-frame, & Custom. To use "Custom", use the "Recording Schedule" to customize the setup. For more information on "Recording schedule", refer to "Recording Schedule setup" of the manual.

Pre-Record Pre-record video prior to an event or motion recording. The time increment is in seconds. Max. 3 seconds.

Post-Record Record video after an Event or Motion triggered recording has expired. The time increment is in seconds. Max. 60 seconds.

NOTE: Depending on the Hybrid Extreme VMS board or an IP device, the resolution, FPS, CODEC, and quality can vary.

7.9 Schedule

7.9.1 Recording Schedule

Each camera has a recording schedule. Set weekly schedule.

Combining schedule modes are as follows.

Combining Modes	Description
No Record	No Recording
Always	Always save all frame
Motion	Save all frame when "Motion" is triggered
Always + Motion	Always save all frame
Event	Save all when an "Event" is triggered
Always + Event	Always save all frame
Motion + Event	Save all frame when "Motion" or an "Event" is triggered.
Always + Motion + Event	Always save all frame
Key frame	Only save key frame
Always + key frame	Always save key frame
Motion + Key frame	Only save key frame when "Motion" is triggered
Always + Motion + Key	Always save key frame and switch to all frame when a "Motion" is triggered
Event + Key frame	Save key frame when an "Event" it triggered
Always + Event + Key	Always save key frame and switch to all frame when an "Event" is triggered
Motion + Event + Key	Save key frame when "Motion" or an "Event" is triggered
Always + Motion + Event + Key	Always save key frame and switch to all frame when "Motion" or and "Event" is triggered.

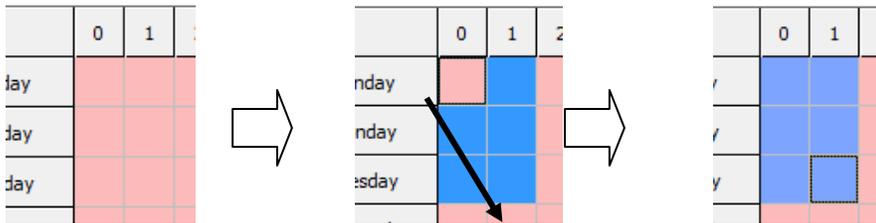
Recording Mode: Custom Schedule

Schedule Mode

Pre/Post Recording

- No Record
 Always
 Motion
 Pre-Recording 3 Sec
 Post-Recording 30 Sec
- Event
 Key-Frame
- No Record
 Always ■
 Motion ■
 Event ■
 Key-Frame ■
- Motion + Event ■
 Motion + KeyFrame ■
 Event + KeyFrame ■
 Always + Motion + KeyFrame ■
- Always + Event + KeyFrame ■
 Motion + Event + KeyFrame ■
 Always + Motion + Event + KeyFrame ■

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sunday	Blue	Green	Blue	Blue	Blue	Blue	Blue																	
Monday	Blue	Green	Blue	Blue	Blue	Blue	Blue																	
Tuesday	Blue	Green	Blue	Blue	Blue	Blue	Blue																	
Wednesday	Blue	Green	Blue	Blue	Blue	Blue	Blue																	
Thursday	Blue	Green	Blue	Blue	Blue	Blue	Blue																	
Friday	Blue	Green	Blue	Blue	Blue	Blue	Blue																	
Saturday	Blue	Green	Blue	Blue	Blue	Blue	Blue																	



7.9.2 Active schedule

Create, alter, or delete schedule.

Action schedule is used in the following settings.

- Event Processing

Schedule List

Schedule Name	Status

Select Schedule

Name:

Active Inactive Active Inactive

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sunday	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Monday	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Tuesday	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Wednesday	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Thursday	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Friday	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Saturday	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

7.9.2.1 Add Active schedule

- Input Schedule name.
- Select "Active" or "Inactive" in Active setting.
- Setting. Select "Active". With the mouse click and hold while dragging the mouse from the start time to end time.
- Add to the list by press "Add" button.

7.9.2.2 Schedule Update

- From the "Schedule list" select a schedule to modify.
- After modifying, press "Update" button to update the modification. Update will also be applied to the "Schedule list".

7.9.2.3 Schedule Delete

- To delete a schedule, select a schedule from the "Schedule list".
- Delete button. Pressing the "Delete" button will display "Are you sure you want to delete?" "Pressing "Yes" will delete the selection.
- Schedule will be deleted from the list.

7.10 Storage

7.10.1 Recording storage setting

Storage Property

Drive	Format	Current Usage	Total Size(GB)	Free Size(GB)	New Usage
C:⚠	NTFS	Not Use(Windows Installed)	99.90	79.65	Not Use
D:⚠	NTFS	Not Use	100.00	84.56	Not Use
E:⚠	NTFS	Record(Default Path)	100.00	15.00	Record
F:⚠	NTFS	Record	100.00	10.00	Record
G:⚠	NTFS	Record	65.76	10.00	Record
H:⚠	NTFS	Not Use	200.00	199.90	Not Use
I:⚠	NTFS	Not Use	100.00	99.91	Not Use

Apply

Drive Displays the local and removable drive of the Hybrid Extreme VMS server system. USB memory stick will not be displayed.

Current Usage Displays current usage.

- Not Use: Drive not in use
- Record: Drive in use

Total Size Displays the Drive full capacity

Free Size Displays the remaining capacity of the Drive.

New Usage Displays new usage

NOTE: During the configuration, all recording activity will stop.

7.10.2 Recycle Property

Recycle Property

Free Space Rate : %

When the entire drive reaches "Free Space Rate" the oldest data will be deleted.

NOTE: During the configuration, all recording activity will stop.

7.10.3 Utility

7.10.3.1 Allocation

Utility

Select Drive : All Drive ▼ Allocation

Allocation will delete all the contents of the selected drive.

NOTE: During the configuration, all recording activity will stop.

7.11 Network

7.11.1 Basic Network Setting

<p>Network Interface Card</p> <p>Interface Card Realtek PCIe GBE Family Controller ▼</p> <p>MAC Address 6C-62-6D-CF-F9-85</p> <p>Status Connected</p> <p style="text-align: center;">Open Network Properties...</p>	<p>Address</p> <p style="text-align: right;"><input checked="" type="radio"/> DHCP <input type="radio"/> Static</p> <p>IP Address 192 . 168 . 2 . 169</p> <p>Subnet Mask . . .</p> <p>Default Gateway . . .</p> <p>Preferred DNS . . .</p> <p>Alternate DNS . . .</p>
---	--

Display and modify Network Interface Card (NIC) of the Hybrid Extreme VMS server system.

Pressing "Open Network Properties" button will display and allow the user to change and modify the Network card.

NOTE: During the configuration, all recording activity will stop.

7.11.2 Network Port Setting

Display and configure Hybrid Extreme VMS server port information for remote access.

<p>Port Settings</p> <p>HTTP Server Port : 7001</p> <p>Database Port : 4989</p> <p>Configure Port : 19861</p> <p>FileDB Port : 3999</p>	<p>HTTP Server Port Modify HTTP(Web) server port.</p> <p>Database Port Configure Database port</p> <p>Configure Port Port for Hybrid Extreme VMS control</p> <p>FileDB Port Reading Recorded data</p>
--	---

NOTE: During the configuration, all recording activity will stop. Windows Firewall must be modified after the port configuration. If a router is used, port setting must be configured to access the system from an external connection. For more information about Network, please contact your Network Administrator.

7.11.3 RTSP setting

RTSP setting is used to remotely transfer “Live video” and “Audio”.

<u>RTSP Settings</u>		Enable RTSP Server	Enable or Diablo RTSP server transmission of “Live video”.
<input checked="" type="checkbox"/>	Enable RTSP Server		
Server Port	<input type="text" value="8554"/>	Server Port	Server main port

NOTE: During configuration, “Live video/Audio” cannot be access through the remote client. Windows Firewall must be modified after port configuration. If a router is used, port setting must be configured to access the system from an external connection. For more information about Network, please contact your Network Administrator.

7.11.4 DDNS Setting

Register Dynamic Domain Name Server(DDNS) and connect to the Hybrid Extreme VMS through Web or CMS, using the domain hostname.

<input type="checkbox"/>	Enable DDNS Settings	Enable DDNS Setting	Enable or disable using connect to DDNS.
DDNS Servers:	<input type="text" value="DynDNS.org"/>	DDNS Server	Select DDNS server.
Domain Name:	<input type="text"/>	Domain Name	Input Domain name
User Name:	<input type="text"/>	Username	Set DDNS server user name.
Password:	<input type="text"/>	Password	Set DDNS server password.
<input type="button" value="Update"/>			

Press “Update” button to save the update.

If the DDNS setting is enabled, the DDNS server will update DDNS information every 1 minute.

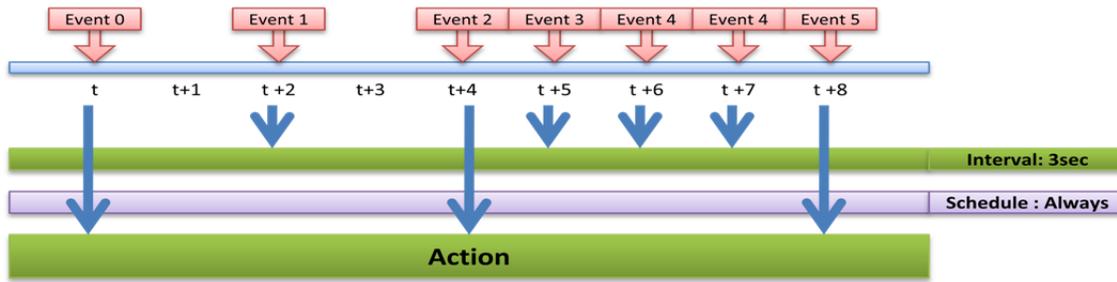
7.11.5 SMTP Setting

Use the Email notification to prepare the server for sending email messages in response to events. You can configure what events require email notification and who receives the emails. Before emails can be sent, the server must be set up to send emails.

- SMTP Server Address Enter the SMTP server address used by the server's email
- SMTP Server Port Enter the SMTP port
- Use authentication to log in to this server If SMTP server requires authentication, select it in the check box
- Username and Password Enter the server username and password
- From Email Address Enter an email address the server can use to send emails.
- Test Email To This will send a test email to the specified recipients. Enter an email address
- Test Click Test button to send email message to recipients.

<div style="border: 1px solid #ccc; padding: 5px;"> <p>SMTP Server</p> <p>Address <input style="width: 80%;" type="text" value="smtp.yourdomain.com"/></p> <p>Port <input style="width: 40%;" type="text" value="25"/></p> </div>	<div style="border: 1px solid #ccc; padding: 5px;"> <p>From Email</p> <p>E-mail address: <input style="width: 80%;" type="text" value="thisdvr@yourdomain.com"/></p> </div>
<div style="border: 1px solid #ccc; padding: 5px;"> <p>Authentication</p> <p><input checked="" type="checkbox"/> Use authentication to log in to this server.</p> <p>User Name <input style="width: 80%;" type="text" value="youname"/></p> <p>Password <input style="width: 80%;" type="password" value="••••••••"/></p> </div>	<div style="border: 1px solid #ccc; padding: 5px;"> <p>Test</p> <p>E-mail to: <input style="width: 80%;" type="text" value="yourmail@yourdomain.com"/></p> <p style="text-align: right;"><input type="button" value="Test"/></p> </div>

7.12 Event setting



7.12.1 Event Rule

Create Rule for “Event activity”. Multiple “Event rule” can be created.

Display “Event rule” in Rule list.

Event Rule Settings

Rule List

Name	Enable
New Event Rule_1	Enable

New Rule

Rule General

Name:

Min. interval between triggers: sec.

Schedule

Response schedule:

Never is event rule disabled

Event type

Event Type:

No select is event rule disabled

Event Source

<input checked="" type="checkbox"/>	videoin1 - Board-0	Start
<input checked="" type="checkbox"/>	videoin2 - Board-0	Start
<input checked="" type="checkbox"/>	videoin3 - Board-0	Start
<input checked="" type="checkbox"/>	videoin4 - Board-0	Start

Rule list

Display “Event rule”

Name

Set the name of the “Event rule”

Min. Interval between trigger

Set the interval between events.

Schedule

Set the schedule of an event. Schedule uses the active schedule.

Event type

Select event type.

- Video Loss
- Motion Detection
- On boot
- Shutdown
- Disk Full
- Input trigger

Event source

Select the source based on the “User type”. Multiple selections are possible based on the “Event type”.

7.12.1.1 *Rule Add*

- To begin, press “New Rule” button.
- Input “Event rule” name.
- Min. interval between trigger: Set the processing interval when an event occurs.
- Response schedule: Set schedule to process an event.
- Event type: Select “Event type”.
- Event Source: Select “Event Source” to process an event.
- Press "Rule Save" button to add to Rule list.

7.12.1.2 *Rule update*

- Select one of the rules from the “Rule list”.
- Press “Rule Save” button after completing the configuration.

7.12.1.3 *Rule Delete*

- Select one of the rules from the “Rule list” and press “Delete” to delete the selection.
- Are you sure you want to delete the selected item?" Message will be displayed.
- Press “Yes” to delete the rule from the “Rule list”.
- Deleting the rule will also delete the action from the Rule list.

7.12.2 *Action setting*

Set action to the “Event rule. When an event occurs, an action can be applied to be triggered.

7.12.2.1 *Action based on the Event type*

Depending on the “Event type”, the following actions are possible.

Event Type	Record Video	E-mail	Output Trigger
NO select			
Video Loss	YES	YES	YES
Motion Detection	YES	YES	YES
On boot		YES	YES
Disk Full		YES	YES
Input trigger	YES	YES	YES
Shutdown		YES	

7.12.2.2 *Record Video action*

Enable Record Video

Enable or disable "Record Video Action"

Duration

Set the duration time of recording after an event has occurred

Cameras

It is possible to select multiple cameras from the camera list.

Setting up recording when an event occurs.

NOTE: The disabled camera will not be displayed on the list.

7.12.2.3 *Output trigger action*

Activate output trigger action when an event occurs.

Enable output. When it is selected, the output will be applied.

Duration is the activation time.

7.12.2.4 *Send e-mail notification action*

Setting email action notification.

Enable send e-mail

Enable or disable e-mail notification for an event.

Email to

Set receiver information. When sending to multiple recipients, use (;) semicolon between each recipients' email address.

Subject

Set subject title to be tagged on the outgoing email.

Message

Set the mail content.

7.13 Log Search

7.13.1 System log Search

Search Condition

From 10/17/2011 3:00:19 PM To 10/17/2011 3:00:19 PM

Event Type:

<input checked="" type="checkbox"/>	OnBoot
<input checked="" type="checkbox"/>	Shutdown
<input checked="" type="checkbox"/>	Record Space Full

Max Result 100

Search

Search system event.

From Set the start date for the search.

To Set the end date for the search.

Event Type Select Event type. Select On boot, Shutdown, or Record space full.

Max. Result Set the maximum number of results to be displayed.

Search Button Begin search.

Result list window Display search results.

Clear Delete all of search results.

7.13.2 User Log Search

Search Condition

From: To:

Event Type:

<input checked="" type="checkbox"/>	Log In
<input checked="" type="checkbox"/>	Log Out
<input checked="" type="checkbox"/>	Log In Fail

 Max Result:

Search user activity event log.

- From Set the start date for the search.
- To Set the end date for the search.
- Event Type Select Event type. Select Log In, Log Out, or Log In Fail.
- Max. Result Set the maximum number of results to be displayed.
- Search Button Begin search.
- Result list window Display search results.
- Clear Delete all of search results.

7.14 User setting

7.14.1 Add new user

Select Setup tree->Users->Add user tab.



7.14.1.1 User account

Set the user information.

User

User Name

Password

Confirm

User Type

- Username Set user ID to logging in.
- Password Set user's password.
- Confirm Re-enter the user's password.
- User type Set the type of user. There are two user types as Administrator and User

7.14.1.2 *Function access*

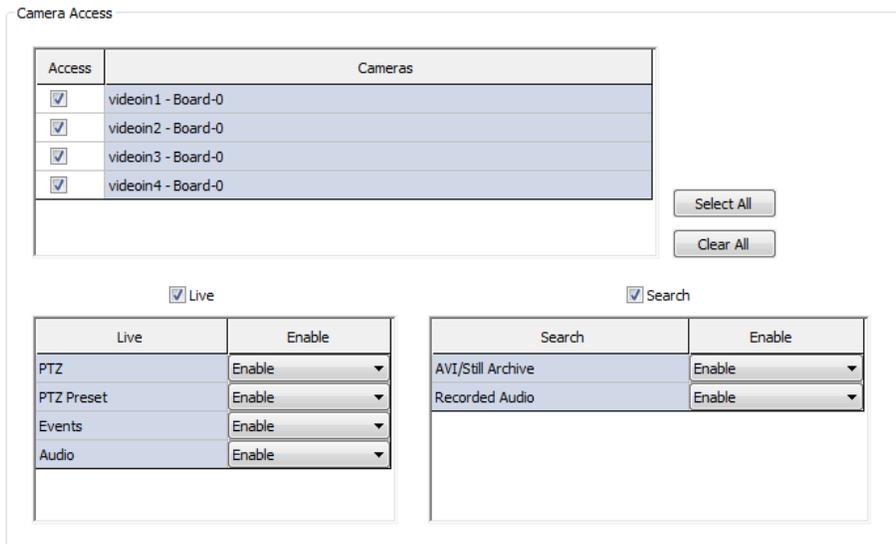
Set permissions for users to access the software functions.

Properties	Enable
Live	Enable
Search	Enable
Setup	Enable
Exit & Shutdown	Enable

- Live Set permission of Hybrid Extreme VMS software to access live monitoring.
- Search Set permission of Hybrid Extreme VMS software to access search.
- Setup Set permission of Hybrid Extreme VMS software to access settings.
- Exit & Shutdown Set permission of Hybrid Extreme VMS software close or shutdown.

NOTE: This only applies to the Hybrid Extreme VMS server software and does not apply to remote access.

7.14.1.3 *Camera access*



Set permission for camera user. If the permission is disabled, the user will not be able to use that authority.

NOTE: User permission of individual camera setting can be authorized in the "Access Camera" tab.

Camera Access User with access permission can access live video and search for the camera

Live Select from the list of cameras and set permission for real-time monitoring. When selected monitoring is available.

PTZ Set PTZ permission from the list of selected cameras.

PTZ Preset From the list of selected cameras, set permission for PTZ preset.

Event From the list of selected cameras, set permission to view event.

- Audio From the list of selected camera, set permission to listen to audio.
- Search From the list of selected camera, set permission to search. When it is selected, search is possible.
- AVI/Still Save From the list of selected camera, set permission to save AVI/JPEG.
- Recorded Audio From the list of selected camera, set permission to listen to recorded audio.

7.14.2 Delete user

Select Setup tree->Users->Remove user tab

<input type="checkbox"/>	User Name	User Type	Live	Search	Setup	Status
<input type="checkbox"/>	admin	Administrator	Y	Y	Y	
<input type="checkbox"/>	user	User	Y	Y	Y	

- Select a user to delete.
- Press the delete (Remove) user.

NOTE: Admin cannot be deleted.

7.14.3 User setting

In order to set the permission for each user's environment, the user must input the user name.

7.14.3.1 User Account

User Name	<input type="text" value="admin"/>	Username	Username cannot be changed.
Password	<input type="password" value="••••"/>	Password	Enter the password for the user account.
Confirm	<input type="password" value="••••"/>	Confirm	Retype the password for the user account.
User Type	<input type="text" value="Administrator"/>	User type	Select user type.

7.14.3.2 Access Properties

Setting Hybrid Extreme VMS server access property.

Properties	Enable		
Live	<input type="text" value="Enable"/>	Live	Set user permission to access Live.
Search	<input type="text" value="Enable"/>	Search	Set user permission to access Search.
Setup	<input type="text" value="Enable"/>	Setup	Set user permission to access Setting.
Exit & Shutdown	<input type="text" value="Enable"/>	Exit & Shutdown	Set user permission to Exit & Shutdown.

7.14.3.3 *Camera Access Permission*

Select Setting

Access	Cameras	Live	PTZ	PTZ Preset	Events	Incoming Audio	Search	AVI/Still backup	Recorded Audio
<input checked="" type="checkbox"/>	Selected	<input checked="" type="checkbox"/>							

Camera List

Access	Cameras	Live	PTZ	PTZ Preset	Events	Incoming Audio	Search	AVI/Still backup	Recorded Audio
<input type="checkbox"/>	New Camera	<input type="checkbox"/>							
<input checked="" type="checkbox"/>	videoin1 - Board-0	<input checked="" type="checkbox"/>							
<input checked="" type="checkbox"/>	videoin2 - Board-0	<input checked="" type="checkbox"/>							
<input checked="" type="checkbox"/>	videoin3 - Board-0	<input checked="" type="checkbox"/>							
<input checked="" type="checkbox"/>	videoin4 - Board-0	<input checked="" type="checkbox"/>							

Access privileges for individual camera settings.

- Access User with access permissions can monitor and search.

- Live Set permission to access Live. When it is selected, Real-time monitoring is possible.

- PTZ Set permission to access PTZ function.

- PTZ Preset Set permission to access PTZ preset.

- Event Set permission to access camera Event.

- Audio Set permission to access audio.

- Search From the list of selected camera, set permission to search. When it is selected, search is possible.

- AVI/Still Save Set permission to save camera AVI/JPEG file.

- Recorded Audio Set permission to access recorded audio during playback video.

7.15 E-Map

Create a map and display devices on the map. Users can monitor and search using the map and the devices layout.

7.15.1 Map Creation

Map format can use image file, geographical position or html page.

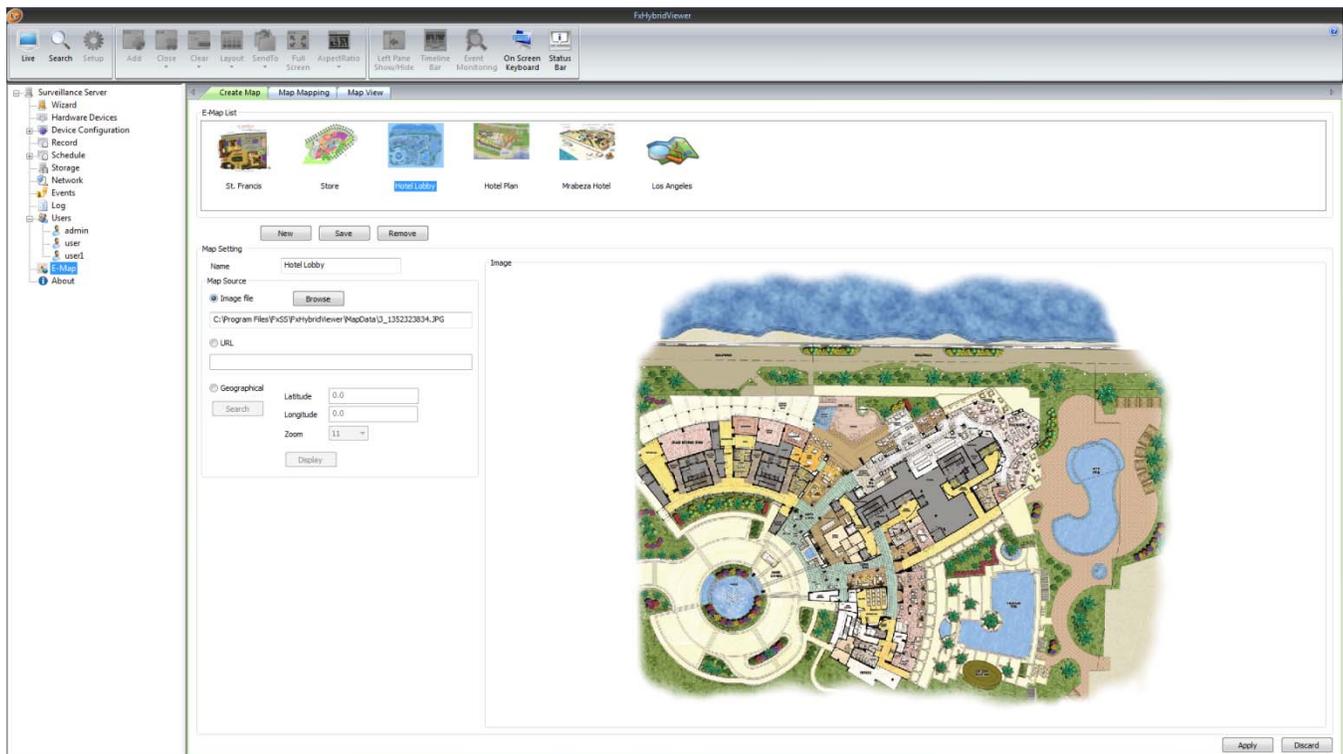
Image file RMP, JPEG PNG, & GIF files can be used.

URL Html can be displayed by using a URL.

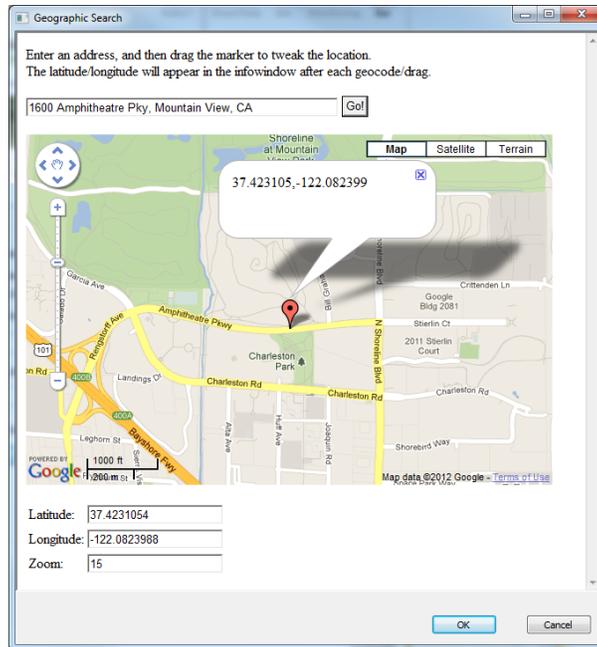
NOTE: To use this function, you must network must always be connected.

Geographical Using latitude and longitude, a user can get the map location from GoogleMap.

To use this function, they system must be connected to internet.



- Using Geographic setting, set latitude and longitude. It is possible to get an e-map using Google Map.

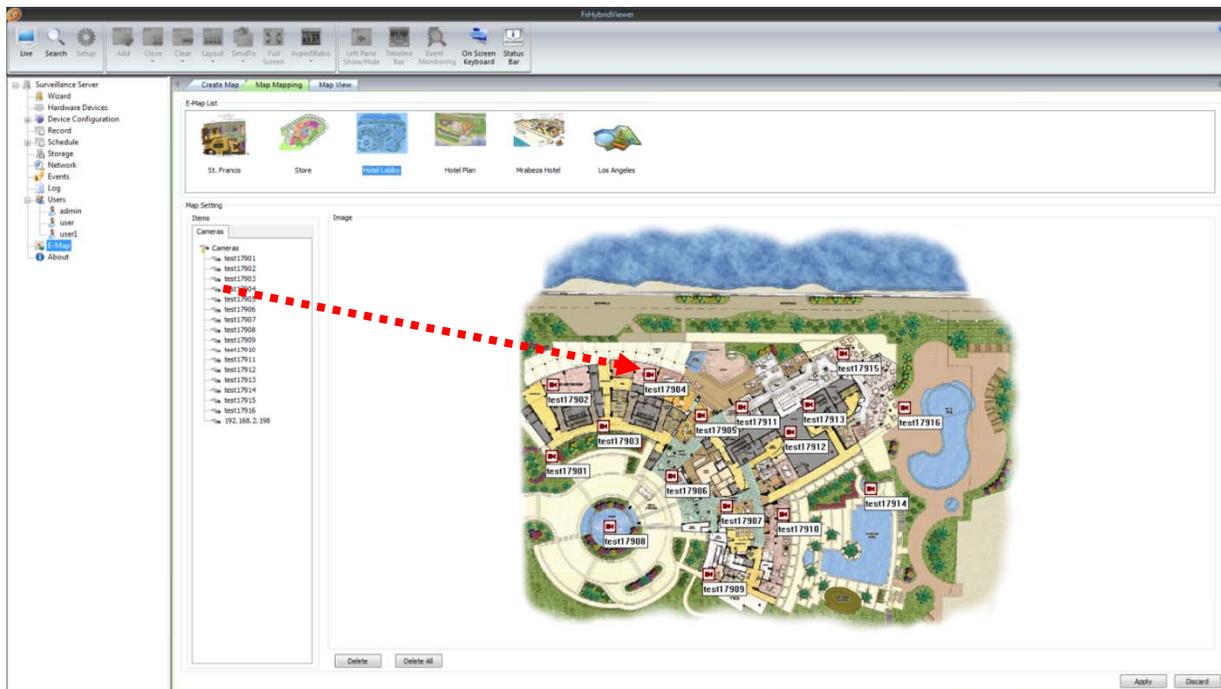


- Press “Display” to display the map created using the method mentioned above.

7.15.2 Map Mapping

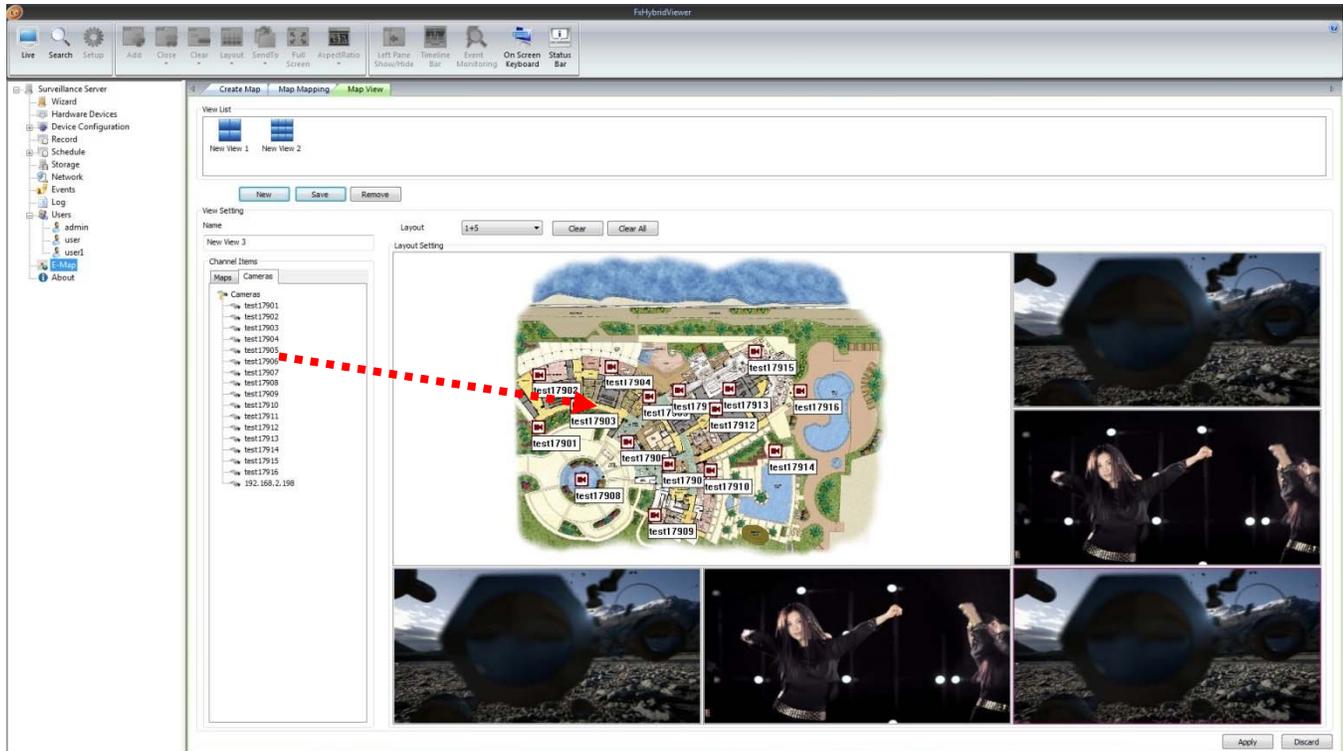
Display the devices on a Map. Display camera, Input port, & output port.

Select items from “Item tree”, and lay the devices onto the map. The selected devices on the map can be moved or deleted.



7.15.3 Map view

Depending on the layout of the map and the camera setting, it is possible to monitor live and search by using the Map.



Select the layout and select map. Drag-drop camera and map into desired channel.

7.16 POS setting

The Point of Sale (POS) Transaction engine is a licensed feature that records video and raw data from POS transaction sources. POS transaction sources can be added and configured in the Hybrid Extreme VMS.

A typical process flow to use when first configuring the POS is as follows:

- Set Key-name using the Key-Name Tab
- Set connection configuration in the Interface Tab
- Set filter setting in the Parser Tab
- Configure POS setting in the POS Join Tab

The Transactions through the analyzer input from the POS device and the desired material is separated. The separated materials can create an event by setting in the event setup and is used to search for material in to POS search.

7.16.1 Key-Name setting

Different POS devices display several types of information, such as the meaning of material. For example, usually a device in the "Total" will be displayed in various forms; some devices may appear as "TOTAL", "SUM", "GRAND TOTAL", "Change Tend" or "Amount". The Key-Name is the name of the one to manage the information that is provided to the various expressions used.

The transaction information received from the POS device will be filtered and be stored the Key-Name for the specified values.

The Key-Name will do as the share name:

- Create event for the specified data.
- quick search and move time to the specified data that received
- manage by user assigned share name

The screenshot shows a user interface for setting a Key-Name. At the top, there are three buttons: 'New', 'Save', and 'Remove'. Below these buttons is a text input field with the label 'Name' and the text 'CHANGE' entered inside it.

To add, click New button and enter a name and click Save button to store, then it will be listed at list box. To change, select one Key-Name in the list box and edit it, then press Save button to store.

The Key-Name's value will be assigned at Parser setting.

When it is removed, event occurred may be stopped and user cannot search by this value.

7.16.2 POS Interface setting

The Interface setting can be assigned to how connections are made to the physical POS device. The interface type is either Serial Port or TCP Client.

Please see a product's manual or technical manual of POS device.

NOTE: This setting may not support all of them. Please contact technical support team.

Click New button to create new connection.

Enter Interface name (1) to the indication.

Select connection type, either Serial Connect or TCP client and set to properties.

Click Save button to store, then the name may be listed in the list box.

To change a property, select a name to configure and click Save button to store.

To remove, select a name and click Remove button. It will be removed from the list box.

When you remove it, connection and data will be lost.

7.16.3 Parser setting

The parser will be parsing and filtering for received transaction data. It will separate from a received data to the necessary information or the avoidable data.

7.16.3.1 Transaction Filter

It assigns the start and end point of transactions. The data between the start and end point is valid data. Other data may be destroyed or not stored into the database.

Mark	Type	Value
START	Text	Invoice
END	Text	!

Mark Select Start or End mark

Type Set and assign for mark character or word

Control Char Using Control character in ASCII

Text Using specified word

Hex Using special hexadecimal string.

The format is \x<hex value>[\x<hex value>...]

7.16.3.2 *Line breaker*

There is assigned line break. Line break, allow Control Char, text and hexadecimal.

7.16.3.3 *Exclude*

It assigns the unusable data range. The data between start point and end point in transactions may not be stored in the database.

Exclude Mark

Start Mark

Control Char

Text

Hex

End Mark

Control Char

Text

Hex

Length

Apply to all

Exclude all ASCII control characters 0 - 31, 127

Exclude Mark List

Start		End	
Type	Value	Type	Value
Text	====	Control Char	CR(\x0D[13])

For example, if Start is "====" and End is Carriage Return (CR), the data between start and end is garbage.

If Start is "====" and End is 40 characters in length, the 40 characters from start may be not stored.

7.16.3.4 *Key-Name value*

Assign the value for the Key-Name. When a value of the Key-Name is included in the sentence, that sentence will be created as the event.

7.16.3.5 *POS device link setting*

To link with a physical POS device and receive data, the Interface type and Parser type should be set.

Name

Enable

Interface

Parser

To create a link, click the New button.

Enter a name for link.

Select check box to enable.

Select a Interface method. For more information, see section 7.16.2 POS Interface setting

Select one of the Parser methods. For more information, see section 7.16.3 Parser setting

Click Save button to store it, The link name will be listed.

7.17 Backup and Restore

Backup

Restore

Current configuration can be saved to a file with "Backup". The Hybrid Extreme VMS configuration can be restored from a backed up configured file.

7.18 About

Software Information

Name

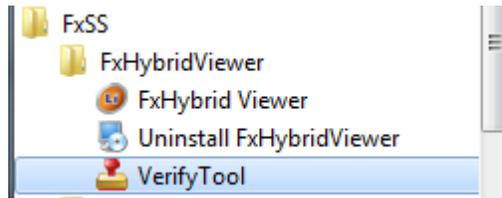
Version

Registration

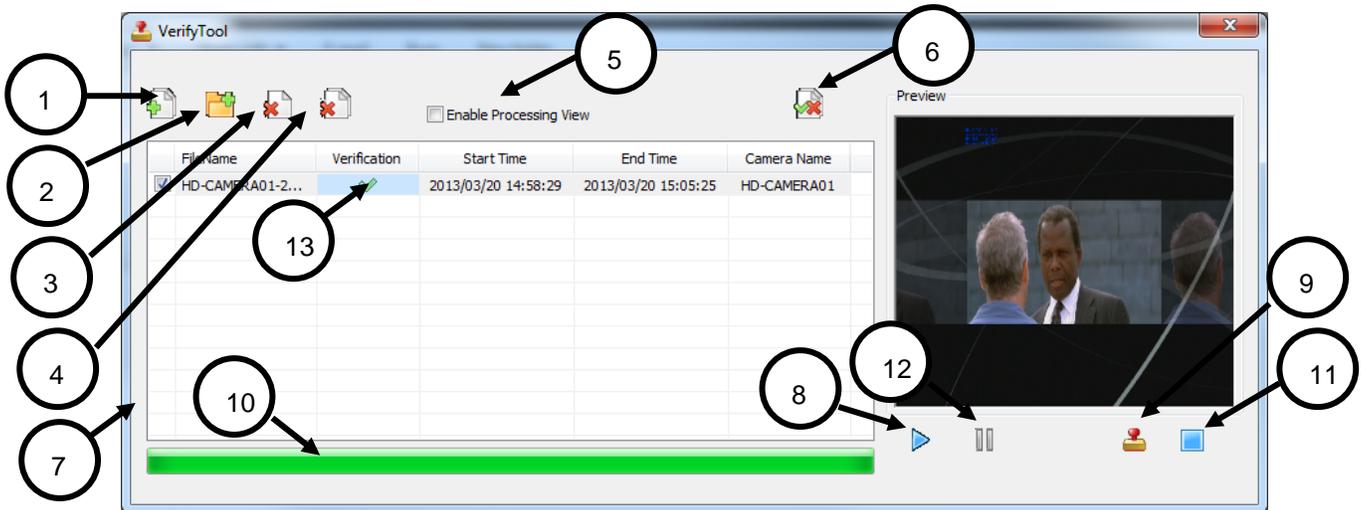
License No.

Name	Display the name of the software.
Version	Display the version of the software.
License No.	Display information about the license of the software.

8 Watermark Verify Tool



Open Start->All Programs->FxSS->FxHybridViewer->Verify Tool



- Add File(1) Add a file for verification
- Add Folder(2) Add a folder for verification
- Remove File(3) Delete selected file from list
- Remove All Files(4) Delete all files from list
- Enable processing View(5) Verify with play video
- Select/Deselect All(6) Select or deselect all files in list box to verify
- File List Box(7) File list to verify
- Play(8) Play video
- Verify Start(9) Start the verification
- Progress bar(10) Progress bar
- Stop Verify(11) Stop the verification
- Pause(12) Stop playing

When done, the status is displayed in the verification column.

9 Remote Access

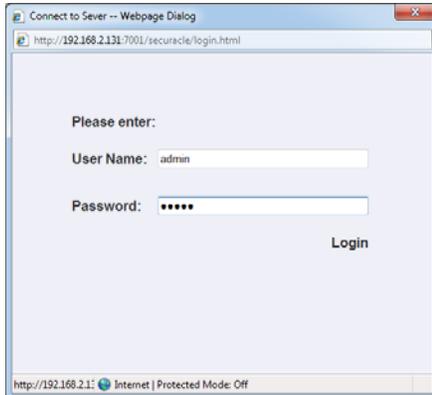
Remote access to Web and Central Monitoring Software (CMS) support.

9.1 Web access

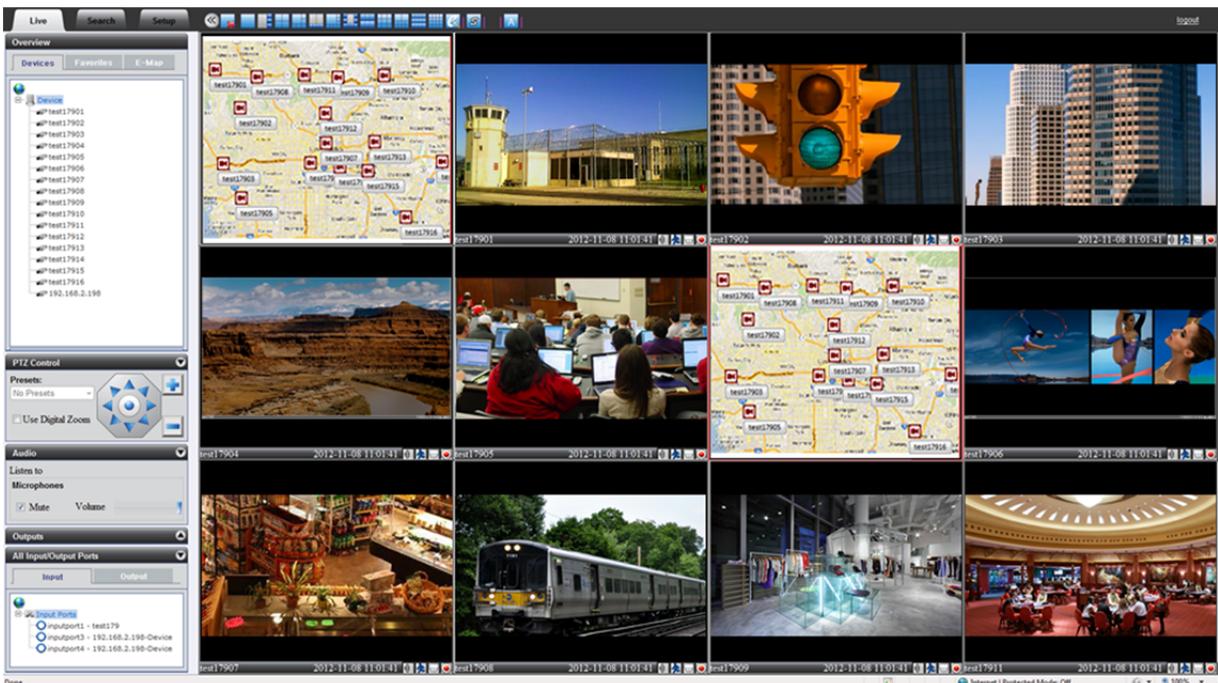
Default Http port to access the Web is 7001. In order to access the Hybrid Extreme VMS, user must have Hybrid Extreme VMS access authorization.

Live, Search, and Setup is possible using the Web.

Default URUL is `http://<ipaddress>:7001`



Enter user name and password and press “Login”.



NOTE: Recommend Internet Explorer 64-bit and a 64-bit OS, Intel HD Graphic 3000/4000.

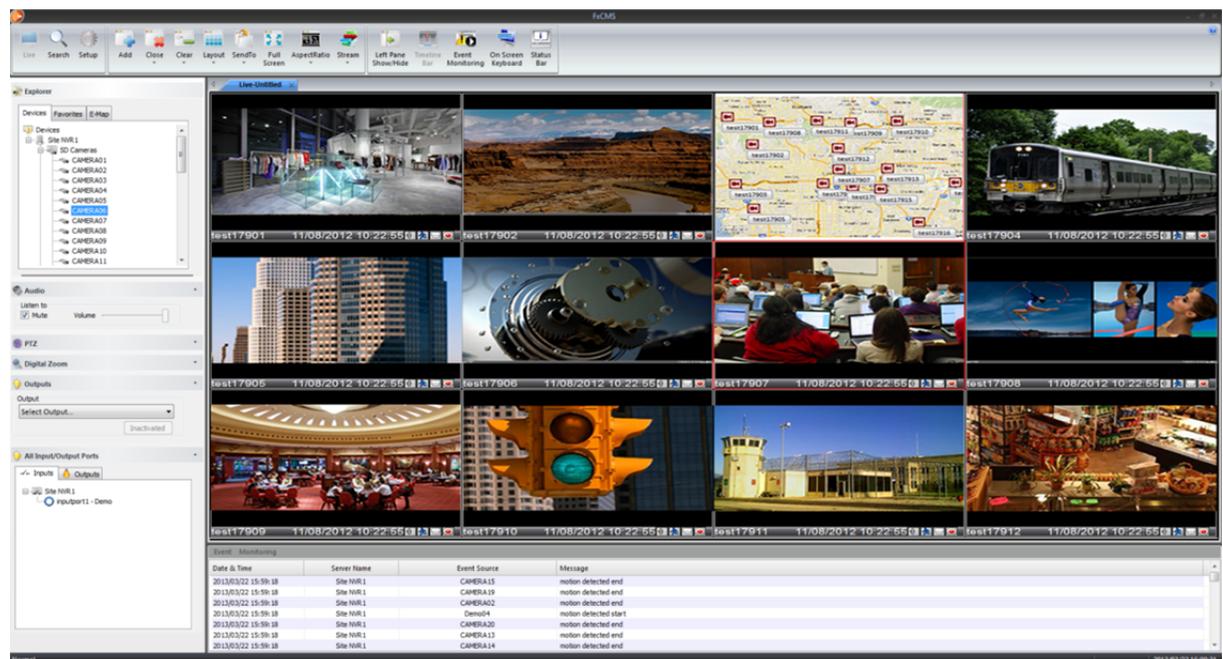
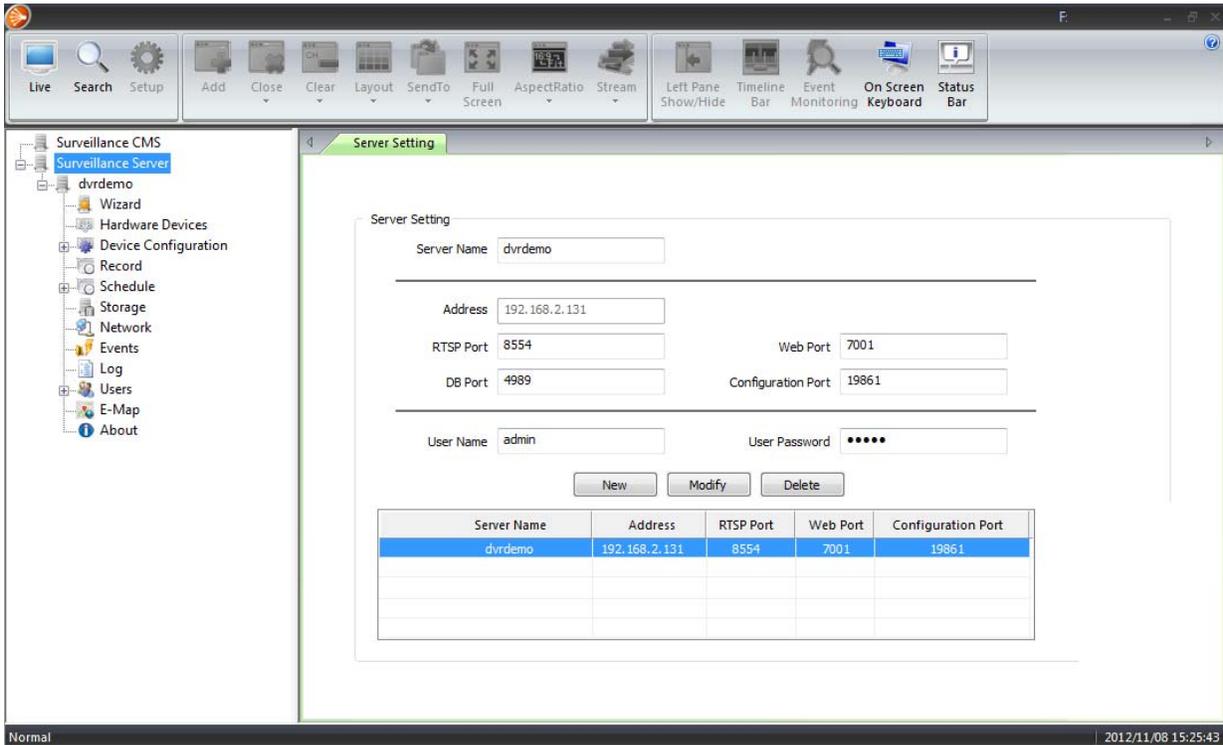
Because of the ActiveX, only MS Internet Explorer is compatible.

For more information, please refer to the Hybrid Extreme VMS Web access document.

9.2 Central Monitoring Software (CMS)

CMS is included with the Hybrid Extreme VMS. The wide range of functionalities the CMS provides includes; connecting multiple Hybrid Extreme VMSs, view live monitoring, search/playback, manage cameras, manage other connect devices, manage recording servers, and the list goes on. This centralized monitoring software fully integrates security to the fullest.

Register multiple Hybrid Extreme VMS using Setup.



For more information, refer to the CMS manual.